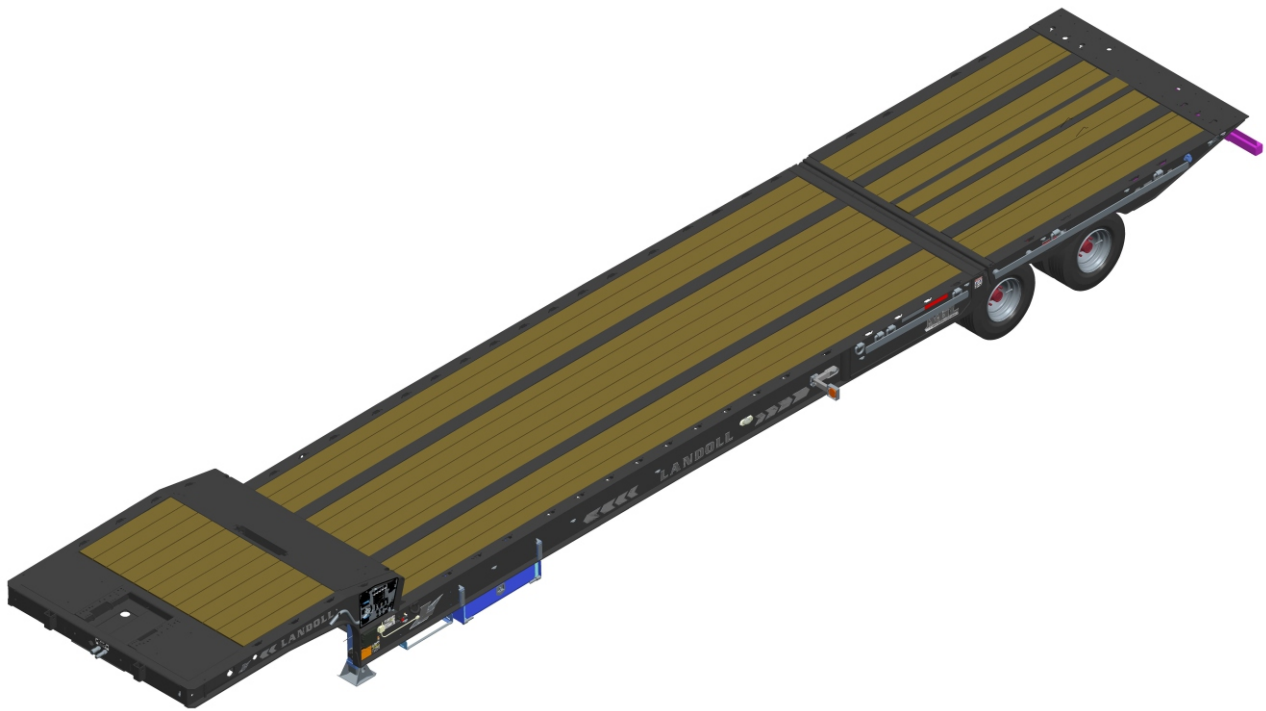




Model 900D Series Hydraulic Tail Semitrailer Parts Manual



LANDOLL CORPORATION

1900 North Street
Marysville, Kansas 66508
(785) 562-5381

800-428-5655 ~ **WWW.LANDOLL.COM**

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Illustrated Parts List

Instructions For Ordering Parts

ORDER PARTS FROM LANDOLL PARTS DISTRIBUTION CENTER

**** Repair parts must be ordered through an Authorized Dealer ****

PHONE NO: 1-800-423-4320 OR 1-785-562-5381
ORDER ONLINE: Dealer.landoll.com

FAX NO: 888-527-3909

IDENTIFICATION PLATE

The identification plate, which lists the model number and serial number, is located on the front of the frame
([See Figure 1-1](#))

SERIAL NUMBER NOMENCLATURE

The serial number for the Model 900D Series Semitrailer is located on the identification plate.

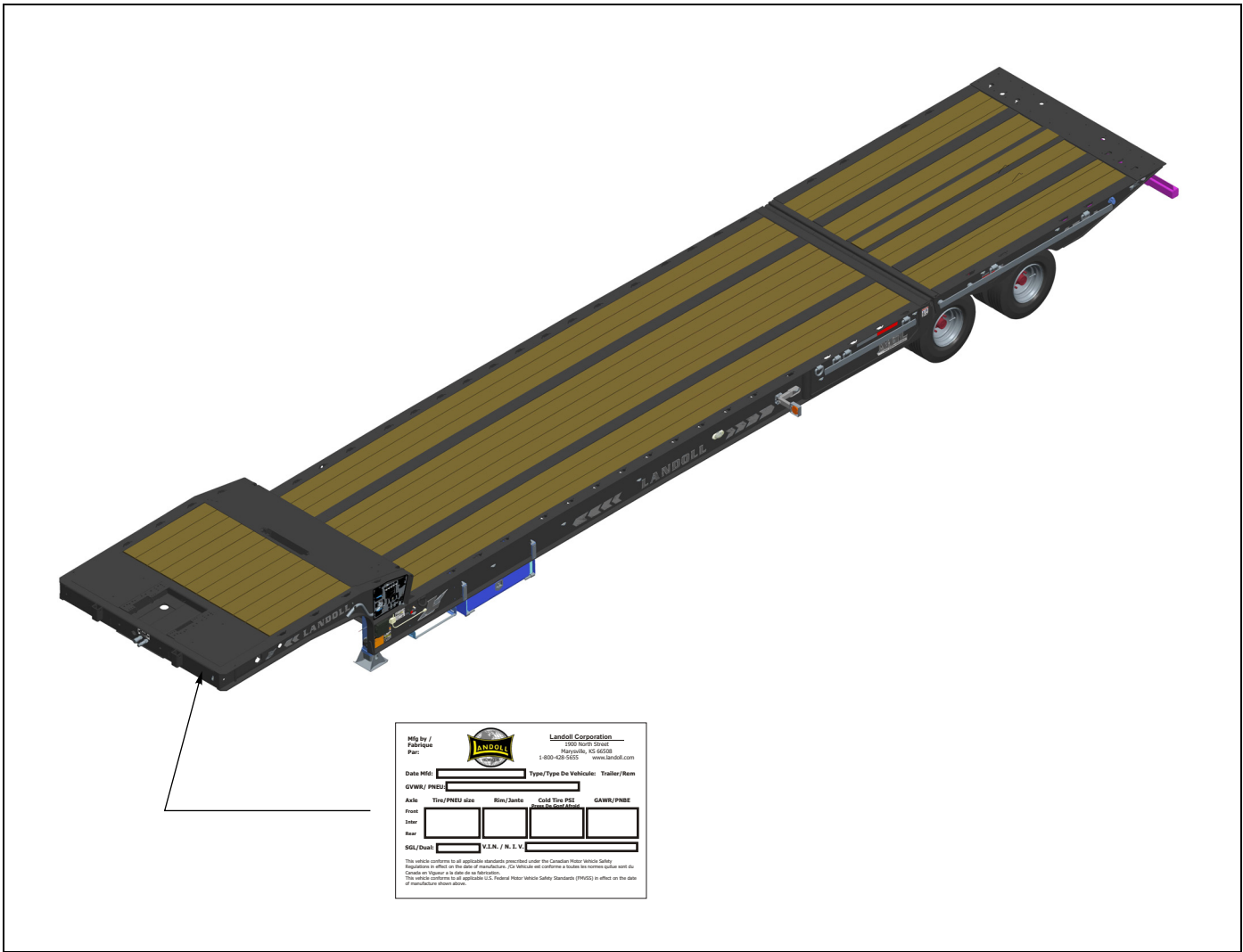


Figure 1-1: Identification Plate and Location

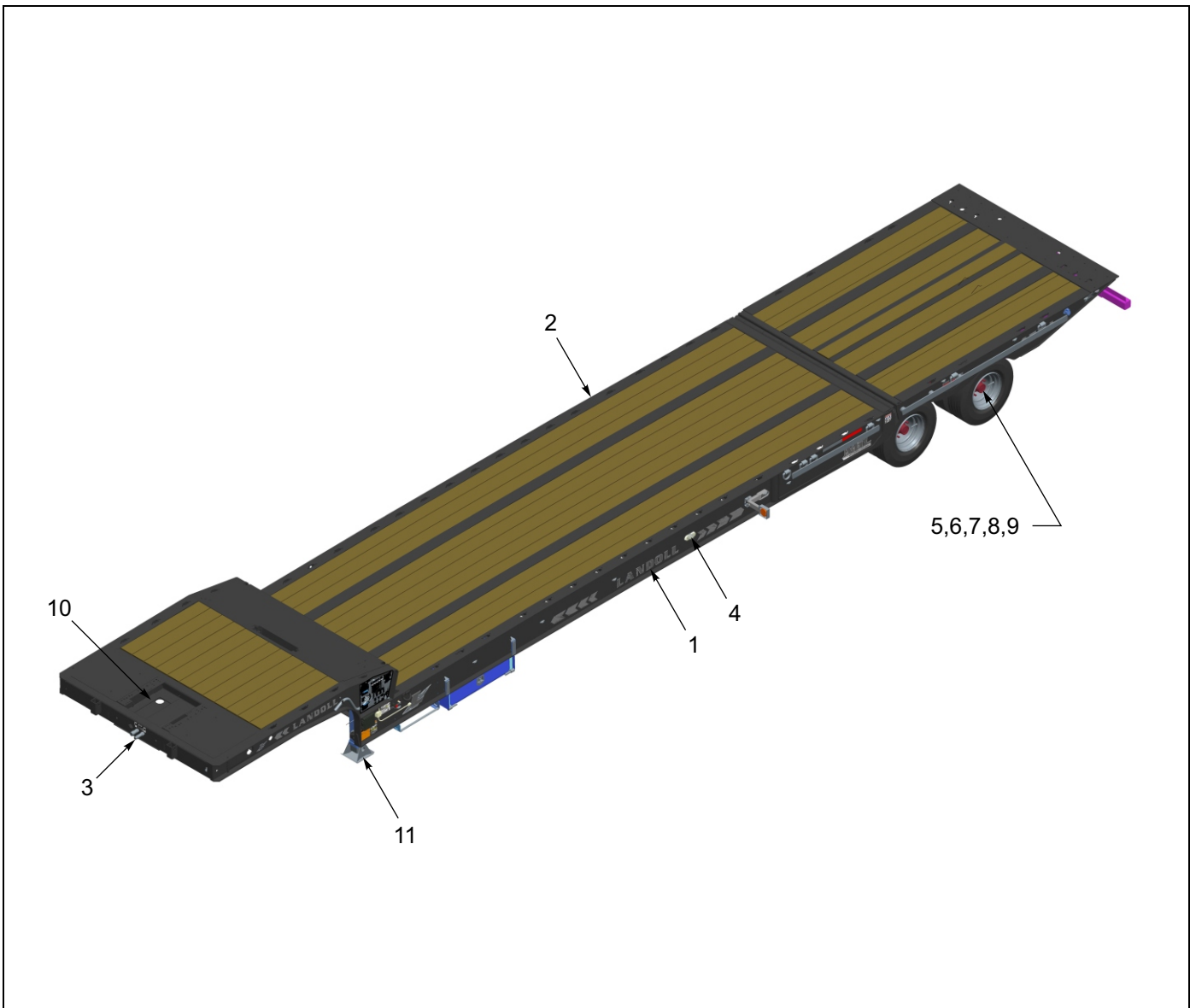


Figure 1-2: General Assembly

General Assembly

ITEM	PART NUMBER	DESCRIPTION	QTY.
1	1-3 - 1-6	DECAL INSTALLATION	
2	1-7 - 1-19	FRAME ASSEMBLY	
3	1-20 - 1-37	HYDRAULIC SYSTEM AND ASSEMBLIES	
4	1-38 - 1-40	ELECTRICAL SYSTEM	
5	1-41 - 1-55	UNDERCARRIAGE ASSEMBLIES	
6	1-56 - 1-63	AIR RIDE SUSPENSION	
7	1-64 - 1-69	AXLE AND BRAKE ASSEMBLIES	
8	1-70 - 1-77	AIR BRAKE SYSTEM	
9	1-78 - 1-85	TIRE INFLATION SYSTEM	
10	1-86 - 1-116	WINCH ASSEMBLIES	
11	1-117 - 1-121	LANDING GEAR ASSEMBLIES	
12	1-122 - 1-199	MISCELLANEOUS OPTIONS (NOT SHOWN)	

Decals

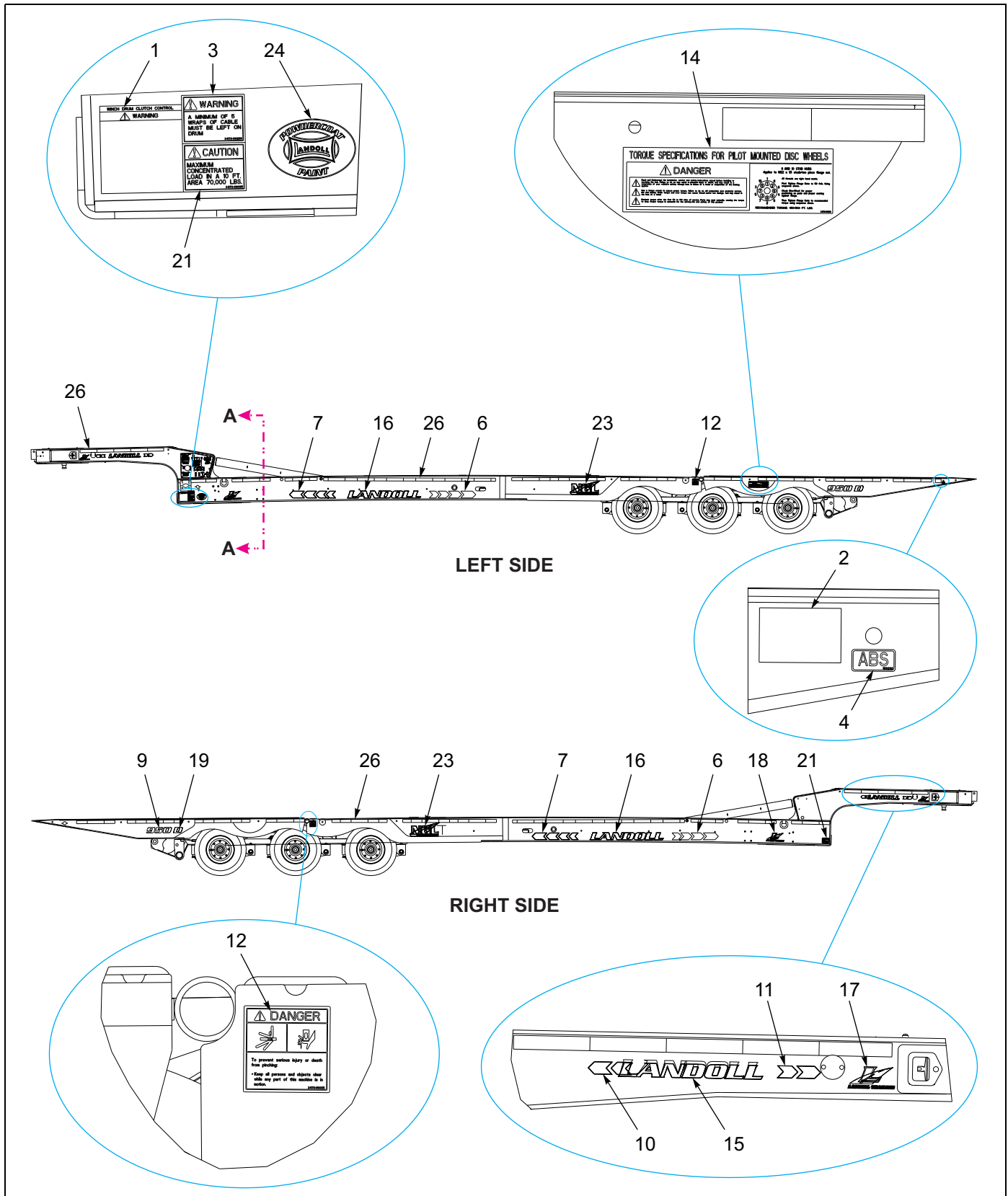


Figure 1-3: Decal Installation (1 of 2)

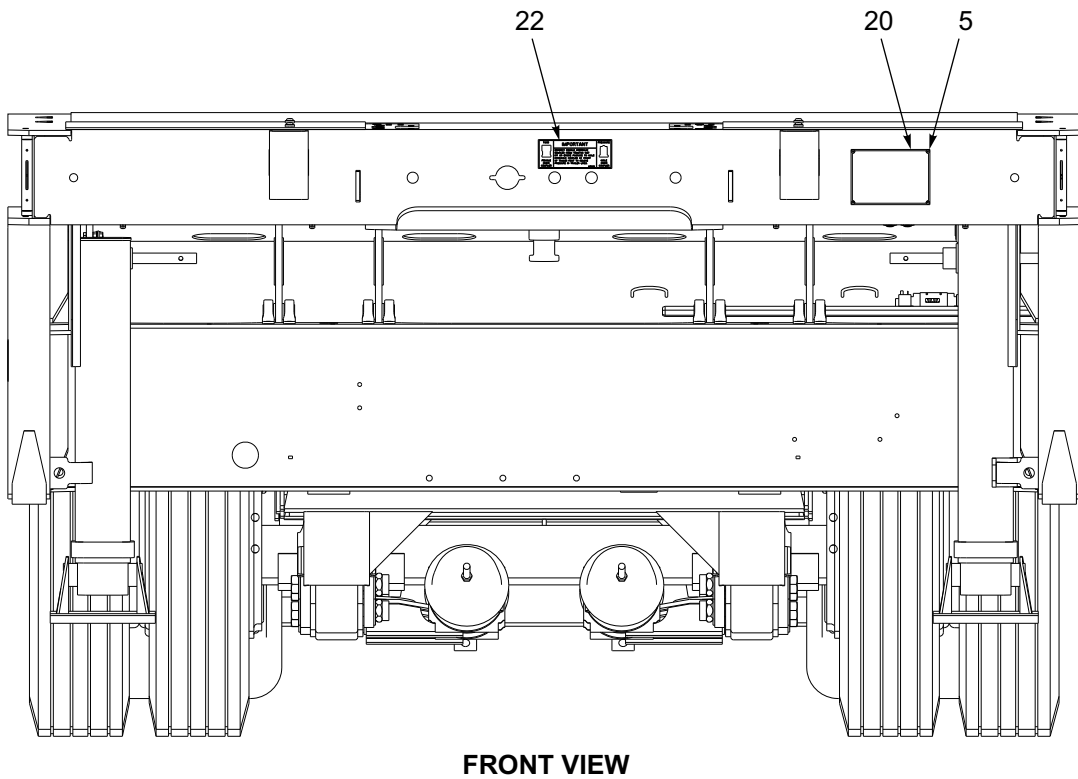
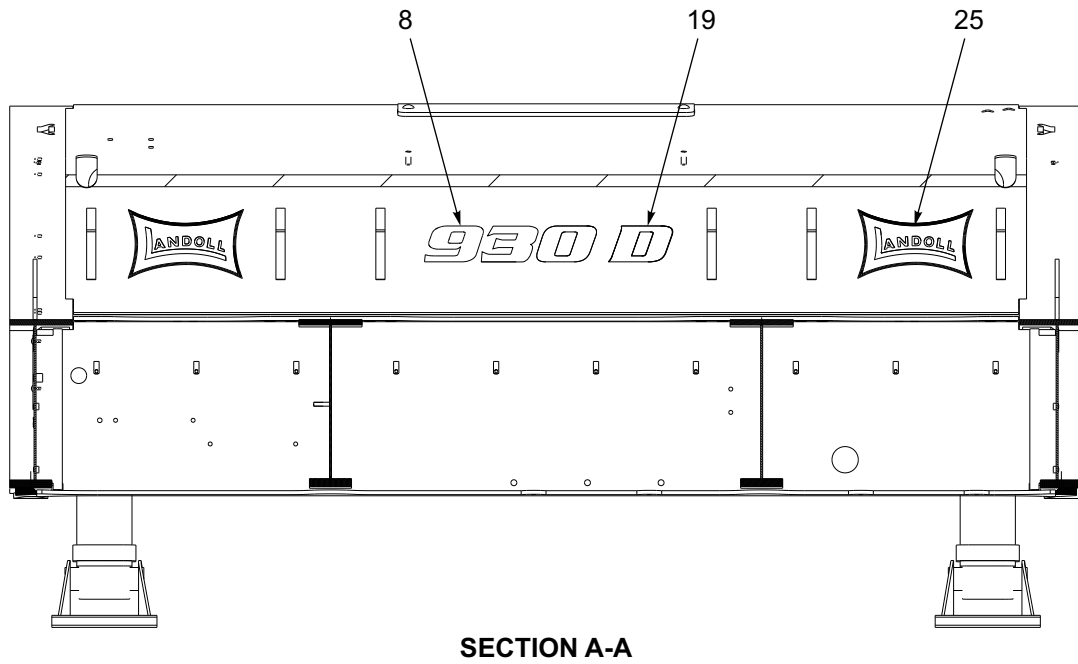


Figure 1-4: Decal Installation (2 of 2)



1-5

Decal Installation & Arrangement

ITEM	PART NUMBER	DESCRIPTION	QTY.			
	196434	DECAL INSTL 930	*			
	196435	DECAL INSTL 930 NO LANDOLL	*			
	196437	DECAL INSTL 950	*			
	196438	DECAL INSTL 950 NO LANDOLL	*			
1	100600	DECAL WARNING BRADEN WINCH	REF	REF	REF	REF
2	101855	WARNING LAMP LABEL,ABS	2	2	2	2
3	3-573-010299	DECAL, WARNING WINCH CABLE	2	2	2	2
4	189292	DECAL, ABS, WHITE	2	2	2	2
5	156010	RIVET, BLIND .156X1/2 GRIP	4	4	4	4
6	196175	DECAL ARROW LARGE 4RH	2	--	2	--
7	196176	DECAL ARROW LARGE 4LH	2	--	2	--
8	196178	DECAL 930 TRAILER	5	5	--	--
9	196181	DECAL 950 TRAILER	--	--	3	3
10	196168	DECAL ARROW SMALL 2LH	2	2	2	2
11	196169	DECAL ARROW SMALL 2RH	2	2	2	2
12	2-573-010335	DECAL, DANGER PINCHING	2	2	2	2
13	3-573-010349	DECAL, CAUTION 50M#/10 FT	1	1	1	1
14	3-573-010210	DECAL TORQUE SPEC 8-10STU HUB	2	2	2	2
15	196167	DECAL LANDOLL SMALL	2	2	2	2
16	196174	DECAL LANDOLL LARGE	2	--	2	--
17	196165	DECAL HIGHWAY L	2	2	2	2
18	196177	DECAL HIGHWAY L LARGE	2	2	2	2
19	196179	DECAL LETTER D, 3-1/2" TALL	5	5	3	3
20	155780	TRAILER VIN PLATE	1	1	1	1
21	3-573-010085	DECAL, CONC LOAD 70,000 LBS	2	2	2	2
22	105822	DECAL, HYD COUPLER	REF	REF	REF	REF
23	196171	DECAL NEXT GENERATION	2	2	2	2
24	196173	DECAL POWDERCOAT SMALL	1	1	1	1
25	192208	DECAL BOWTIE 6-3/4 X 11	2	2	2	2
26	3-573-010377	DECAL, 2" REFLEXITE TAPE, RD/WHT	930	2	950	2

Frame Assemblies

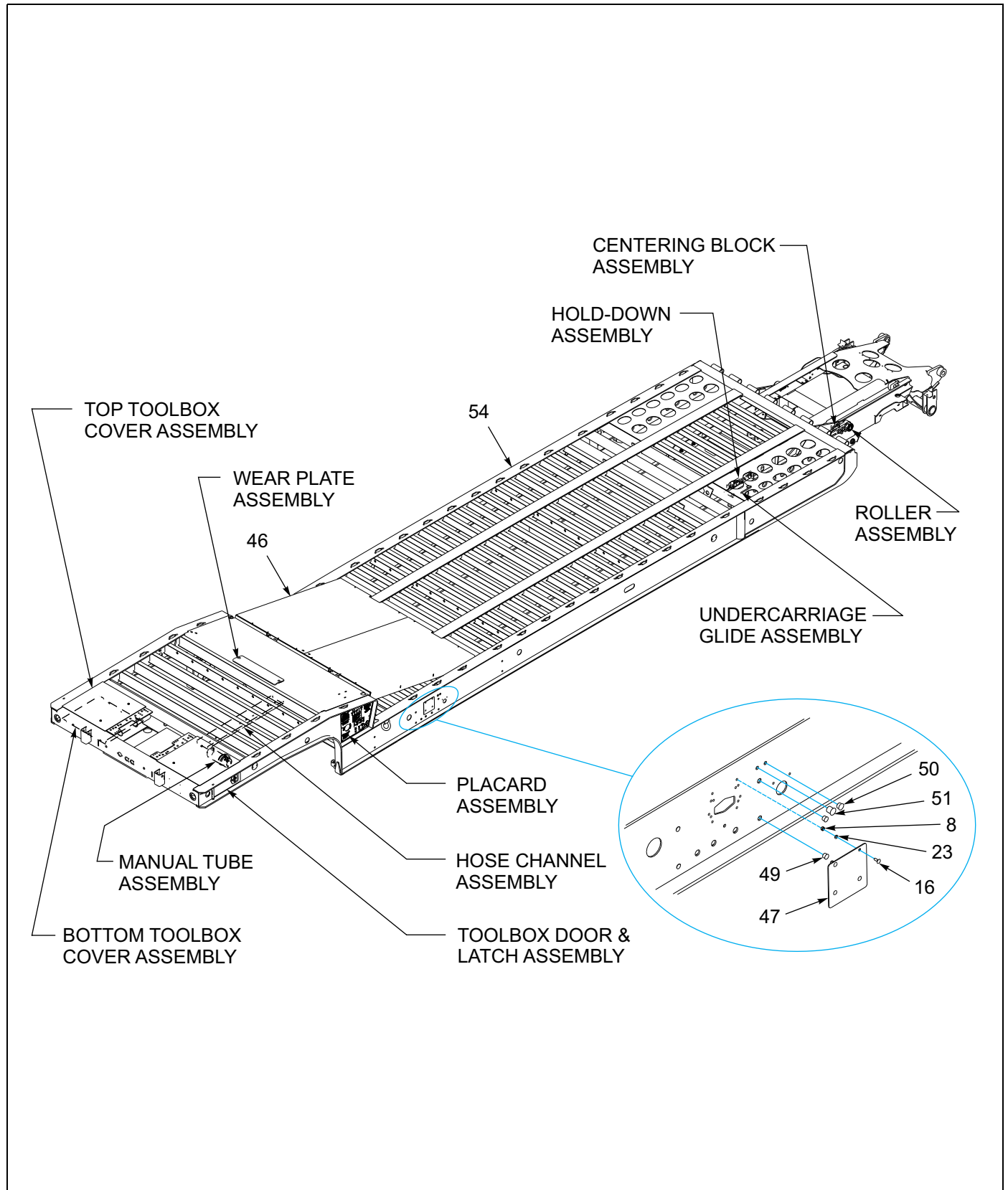
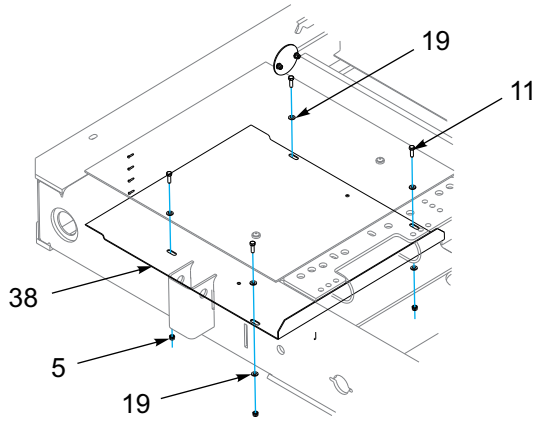
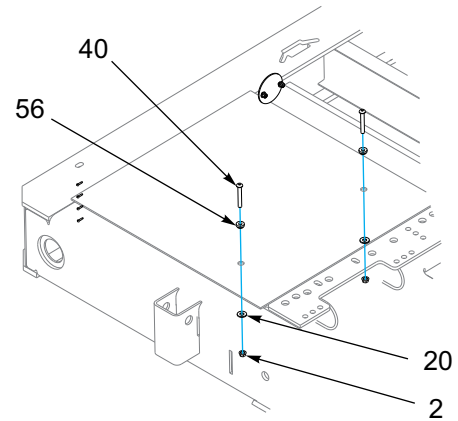
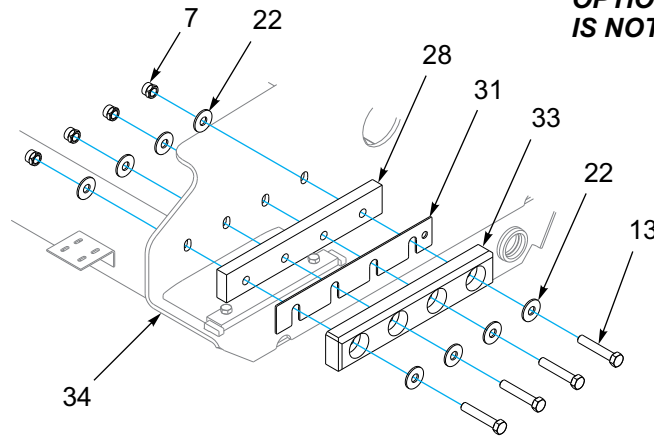
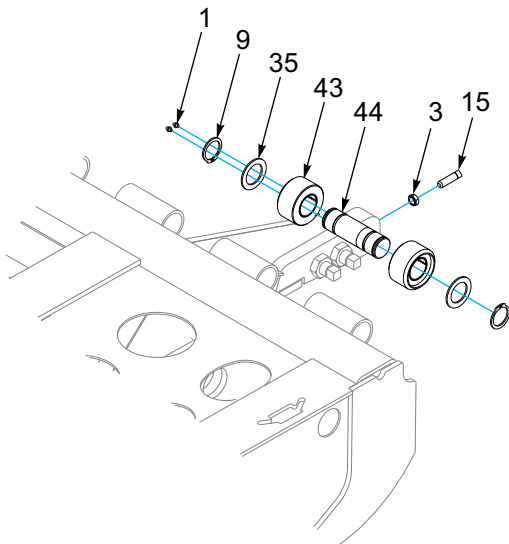
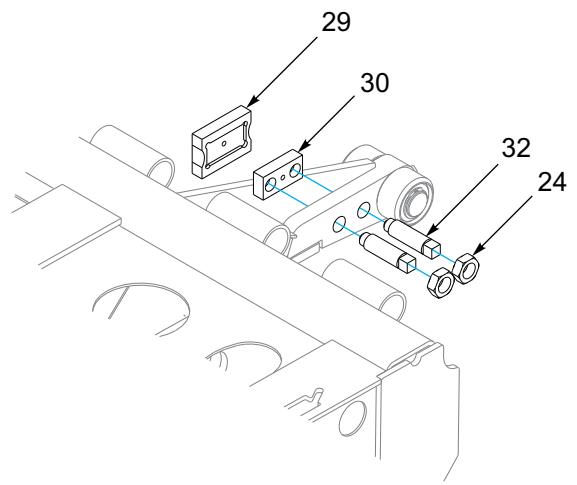
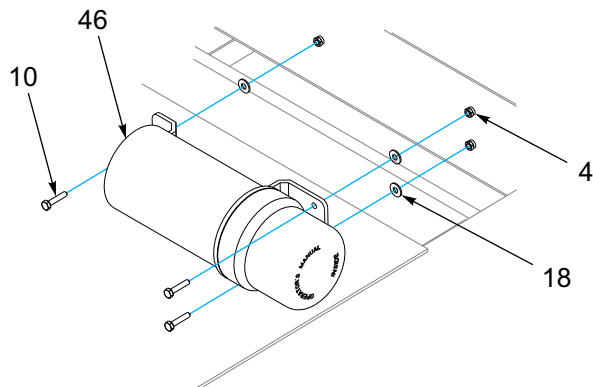


Figure 1-6: Frame Assembly (1 of 3)

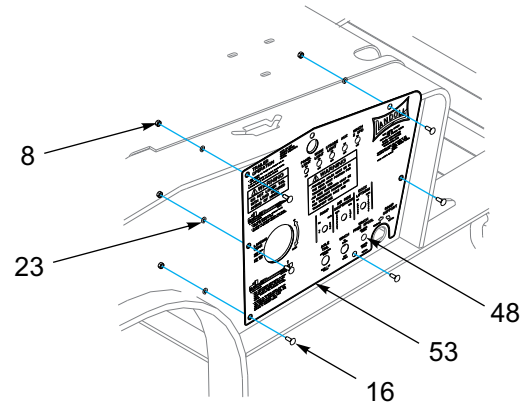
**BOTTOM TOOLBOX COVER**

TOP TOOLBOX COVER
 (ONLY P/N 56 IS USED
 TO PLUG HOLES WHEN
 OPTIONAL ENGINE STANDARD
 IS NOT AVAILABLE)

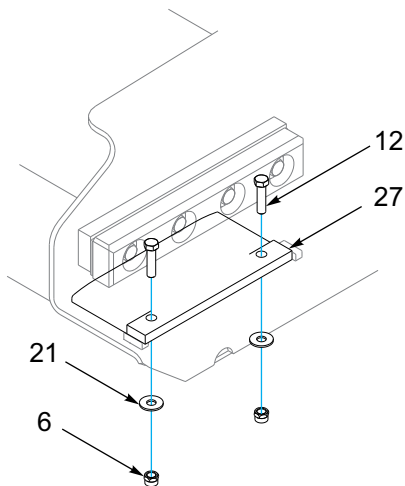
**HOLD-DOWN ASSEMBLY****ROLLER ASSEMBLY****CENTERING BLOCK ASSEMBLY****Figure 1-7: Frame Assembly (2 of 3)**



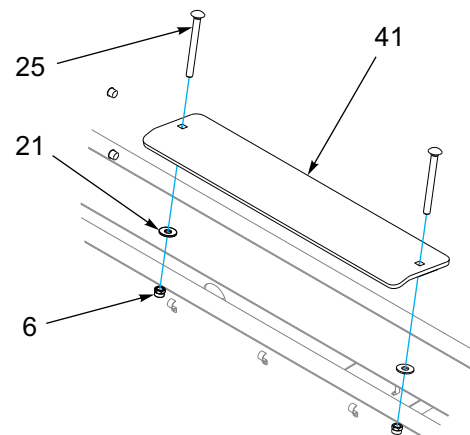
MANUAL TUBE ASSEMBLY



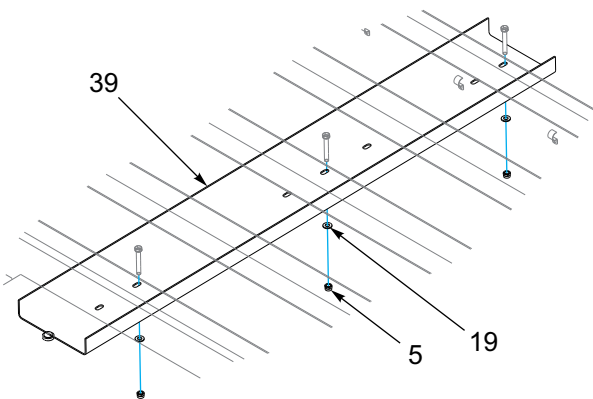
PLACARD ASSEMBLY



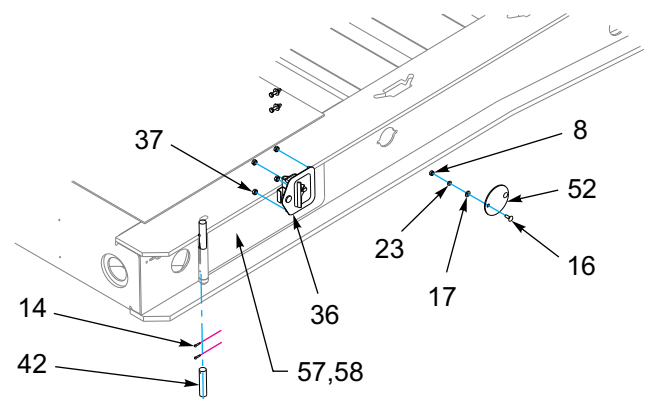
UNDERCARRIAGE GLIDE ASSEMBLY



WEAR PLATE ASSEMBLY



HOSE CHANNEL ASSEMBLY



TOOLBOX & LATCH ASSEMBLY

Figure 1-8: Frame Assembly (3 of 3)

Frame Assembly

ITEM	PART NUMBER	DESCRIPTION	QTY.
	195865	FRAME ASSY 930-33 RMP 235	
	195886	FRAME ASSY 930-36 RMP 235	
	196520	FRAME ASSY 950-33 RMP 235	
	196538	FRAME ASSY 950-36 RMP 235	
1	1-298-010001-1	ZERK FITTING 1/4 SAE	4
2	1-510-010001	NUT, 3/8-16 FLANGE LOCK	4
3	1-511-010001-07	NUT, HEX JAM 5/8-11	2
4	1-512-010005-01	NUT,HEX,SLFLKG GRB 1/4-20	3
5	1-512-010005-03	NUT HEX SLFLKG GRB 5/16-18	11
6	1-512-010005-09	NUT,HEX,SLFLKG, 1/2-13 GRB	2
7	1-512-010005-13	NUT,HEX SLFLKG GRB 5/8-11	8
8	1-512-010007-05	NUT, HEX 1/4-20	18
9	1-630-010021-02	RING, RETAINING 2 HD	4
10	1-654-010047-07	SCREW,HX CP 1/4-20UNCX1-1/4G5	3
11	1-654-010049-05	SCREW HX CP 5/16-18UNCX1 GR5	8
12	1-654-010055-05	SCREW,HEX CAP,1/2-13UNCX2 GR5	REF
13	1-654-010059-11	SCREW,HX CP 5/8-11UNCX3.5GR5	8
14	1-654-010147-06	SCREW RDHD SLF/TPG #6-20X3/4	8
15	1-654-010150-05	SCREW,SET,5/8X2 SQ HD CP PNT	2
16	1-654-010158-1	SCREW,RHD,SQ NCK,1/4-20UNC	18
17	1-861-010032-06	WASHER, FLAT 1/4 N ZP/CD	8
18	1-861-010032-07	WASHER,FLAT 1/4 ZP	3
19	1-861-010032-08	WASHER,FLAT 5/16 ZP	19
20	1-861-010032-11	WASHER, FLAT 3/8 W ZP/CD	4
21	1-861-010032-15	WASHER, FLAT 1/2 W ZP/CD	2
22	1-861-010032-19	WASHER, FLAT 5/8 W ZP/CD	16
23	1-861-010034-09	WASHER, LKG HLCL SPR, 1/4	18
24	100823	NUT,HEX JAM,1-1/4-7 GR2	4
25	100939	SCREW,RDHD, SQNCK1/2-13X5-1/2	2
26	101299	KEY CHAIN, LANDOLL (NOT SHOWN)	1
27	107621	GLIDE U/C 930	REF
28	107622	BLOCK MTG NYLN HOLDDOWN	2
29	108700	BLOCK, CTRG NYLATRON	2
30	108701	BLOCK, CTRG ADJUSTMENT	2
31	108749	SHIM,NYLATRON BLOCK 930	2
32	109004	ROD,THREADED ADJUSTMENT	4
33	109138	NYLATRON HOLD-DOWN BLK	2
34	113562	UNDERCARRIAGE WELDMENT 930	REF
35	114562	BUSHING MACHINE HARD 3X2X10GA	4
36	114814	LATCH FOLDING T LOCKABLE	2
37	115877	NUT HVY HEX 1/4-20 GR5	8
38	117544	PLATE, TOOLBOX BOTTOM 410 G/N	2
39	117565	COVER,HOSE LOWER, 410 G/N	1
40	119146	SCREW,BHSC 3/8-16UNCX2-3/4	4
41	131196	PLATE,WINCH CABLE WEAR U/D400	1
42	135181	BUSHING NYLATRON TOOLBOX	4
43	135613	ROLLER 4 IN. ASSY CONNEX	4
44	135614	PIN ROLLERS REAR 930 FRAME	2

Frame Assembly

ITEM	PART NUMBER	DESCRIPTION	QTY.
45	139465	RAMP ASSY 6FT 930B D/D (SEE PAGE 1-12)	1
46	150076	MANUAL TUBE, 4-1/4"ID	1
47	189253	PLATE, COVER,WEIGHT SCALE	1
48	189278	PLUG, PLASTIC DOME, 1/2"HOLE	5
49	189279	PLUG, PLASTIC DOME, 5/8"HOLE	16
50	189280	PLUG, PLASTIC DOME, 3/4"HOLE	1
51	189281	PLUG, PLASTIC DOME, 13/16"HOLE	1
52	193912	PLATE, COVER, SWINGOUT LIGHT	4
53	195724	PLACARD CONTROL PANEL 900	1
54	195734	FRAME WLDMT 930-33 RMP 235 (USED W/ 195865)	1
	195743	FRAME WLDMT 930-36 RMP 235 (USED W/ 195886)	1
	196444	FRAME WLDMT 950-33 RMP 235 (USED W/ 196520)	1
	196453	FRAME WLDMT 950-36 RMP 235 (USED W/ 196538)	1
55	3-201-010002	CONDUIT 3/8 PLASTIC FLEX (NOT SHOWN)	10
56	805-2	BUSHINGS, STEP	4
57	136352	DOOR WLDMT TOOLBOX 400 RMW	REF
58	137070	GALVANIZING OF 136352 DOOR	REF

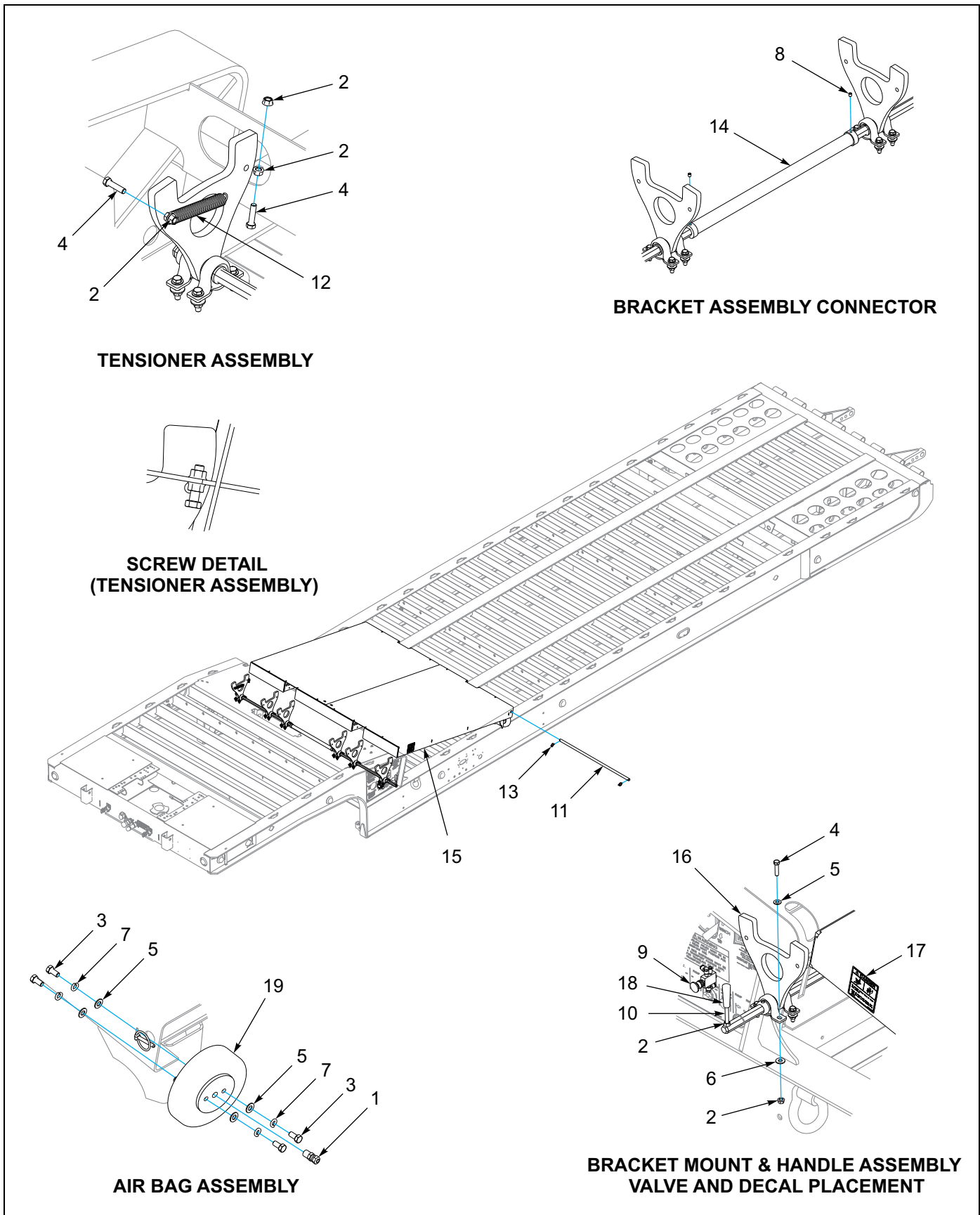


Figure 1-9: 6' Air Ramp - General Assembly

6' Air Ramp - General Assembly

ITEM	PART NUMBER	DESCRIPTION	QTY.
	139465	RAMP ASSY 6FT 930B D/D	
1	1-297-010007-05	FITTING, AIR, 1/4TUBEX1/4NPT	REF
2	1-510-010001	NUT, 3/8-16 FLANGE LOCK	29
3	1-654-010051-03	SCREW,HEX CAP,3/8-16UNCX3/4G5	20
4	1-654-010051-07	SCREW,HEX CAP,3/8-16UNCX1-1/2	26
5	1-861-010032-10	WASHER, FLAT 3/8" N ZP/CD	44
6	1-861-010032-11	WASHER, FLAT 3/8 W ZP/CD	24
7	1-861-010034-11	WASHER, LKG HLCL SPR, 3/8	20
8	107-0975	SCREW SET LOCK 5/16-18X3/8LG	2
9	107887	VALVE AIR PUSH BUTTON	1
10	108969	ROD,THREADED RAMP HDL	1
11	113532	PIN, RAMP HINGE 900	2
12	129985	SPRING EXTENSION 7/8X6X.091	1
13	134912	PIN, LYNCH 1/4 X 1-1/4	4
14	137069	COUPLER SHAFT RAMP LATCH	1
15	139464	RAMP WLDMT 6FT 930B D/D	1
16	141606	BRACKET ASSY 930 RAMP	1
17	2-573-010335	DECAL, DANGER PINCHING (SEE PAGE 1-3)	2
18	3-360-010072	HANDLE PLASTIC BLACK	1
19	3-720-010042	SPRING AIR 6-1/2	5



6' Air Ramp - Air System

ITEM	PART NUMBER	DESCRIPTION	QTY.
	139465	RAMP ASSY 6FT 930B D/D	
1	1-297-010007-05	FITTING, AIR, 1/4TUBEX1/4NPT	5
2	1-297-010010-01	FITTING,AIR,UNION TEE 1/4	5
3	1-833-010001	TUBING NYLON 1/4 OD	23
4	107887	VALVE AIR PUSH BUTTON	REF
5	3-720-010042	SPRING AIR 6-1/2	REF

Top Lid Assembly

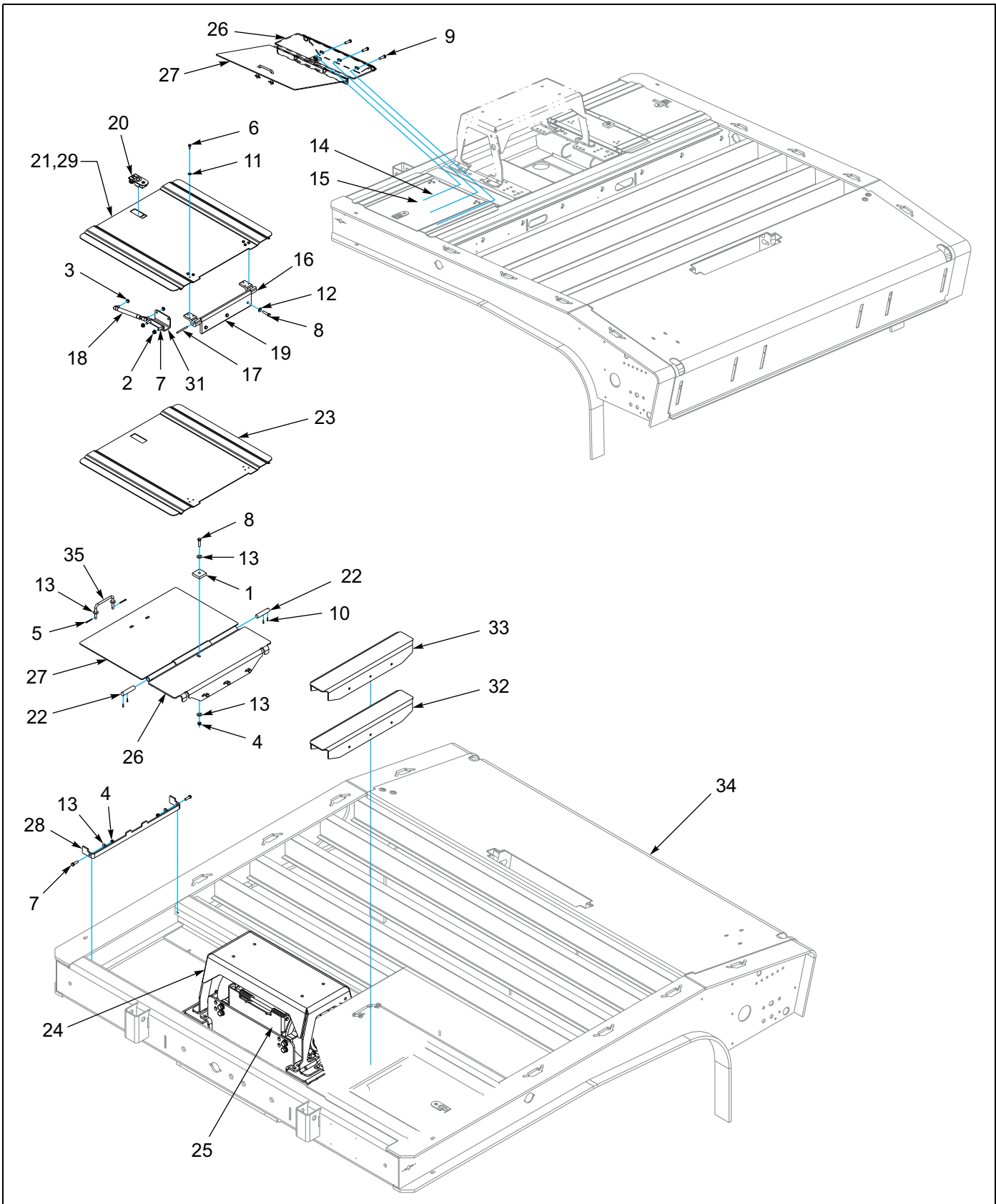


Figure 1-11: Top Lid Installation

Top Lid Installation

ITEM	PART NUMBER	DESCRIPTION	QTY.		
	194377	TOP LID INSTL EURO	*		
	194378	TOP LID INSTL EURO GALVANIZED		*	
	194379	TOP LID INSTLNON WT BEARING			*
1	1-250-010097	PAD, RUBBER	--	--	2
2	1-510-010001	NUT, 3/8-16 FLANGE LOCK	13	13	--
3	1-510-010004-03	NUT HX FLANGE, 5/16-18 GR8	4	4	--
4	1-512-010005-05	NUT, HEX, SLFLKG GRB 3/8-16	4	4	6
5	1-557-010362-40	PIN, COTTER 5/32X1-1/4	--	--	4
6	1-654-010047-04	SCREW,HEX CAP,1/4-20X3/4 GR5	12	12	--
7	1-654-010051-06	SCREW,HEX CAP 3/8-16UNCX1-1/4	8	8	4
8	1-654-010051-07	SCREW,HEX CAP,3/8-16UNCX1-1/2	9	9	2
9	1-654-010053-05	SCREW HXCP 7/16-14UNCX1-1/2G5	--	--	6
10	1-654-010147-06	SCREW RDHD SLF/TPG #6-20X3/4	--	--	8
11	1-861-010032-06	WASHER, FLAT 1/4 N ZP/CD	12	12	--
12	1-861-010032-10	WASHER, FLAT 3/8" N ZP/CD	9	9	--
13	1-861-010032-11	WASHER, FLAT 3/8 W ZP/CD	4	4	12
14	1-861-010032-13	WASHER FLAT 7/16	--	--	6
15	101988	NUT,HEXSLF-LKG 7/16-14 GRB	--	--	6
16	108545	HINGE,BENDI DOOR,FR SID	4	4	--
17	108601	PIN, DOOR HINGE	4	4	--
18	110435	BT CONSOLE LIFT,GAS SPRING	2	2	--
19	116856	HINGE,BASE TOOLBOX LID,410G/N	2	2	--
20	118853	LATCH COMPRESSION SOUTHCO	2	2	--
21	118880	DOOR WLDMT,TOOLBOX 410-102G/N RH	1	--	--
22	135181	BUSHING NYLATRON TOOLBOX	--	--	4
23	141558	GALVANIZING OF 118880, DOOR	--	1	--
24	171167	GUARD WINCH 20/30K WARN	REF	REF	REF
25	174552	WINCH ASSY WARN 30K 2 SPEED	REF	REF	REF
26	175940	SUPPORT WLDMT TOOLBOX LID	--	--	2
27	175942	LID WLDMT TOOLBOX	--	--	2
28	176069	CHAIN HOLDER,TOP OPEN TOOLBOX	2	2	2
29	179312	DOOR WLDMT TLBX EURO LH G/N	1	--	--
30	179315	GALVANIZING OF 179312 DOOR (NOT SHOWN)	--	1	--
31	194373	ANCHOR BOLT-ON GAS SPRING	2	2	--
32	194374	MOUNT EURO TOP LID	1	--	--
33	194375	GALVANIZING OF 179316, MOUNT	--	1	--
34	195704	GOOSENECK WLDMT 900 TOP LID	REF	REF	REF
35	3-360-010014	HANDLE TOOL COMP 345	--	--	2

Tail Assemblies

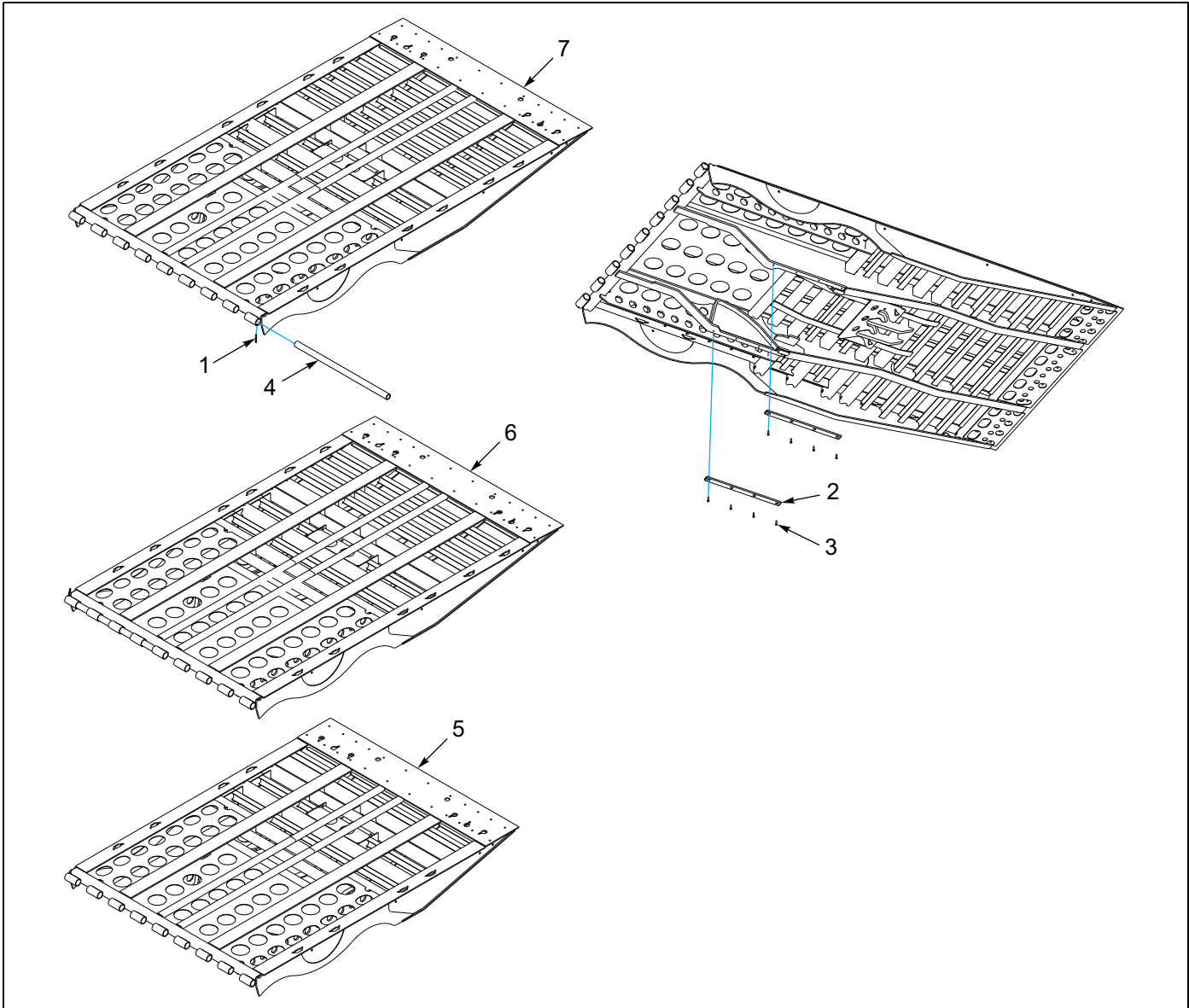


Figure 1-12: Tail Assembly - General Assembly (12', 14', 15')

Tail Assembly - General Assembly (12', 14', 15')

ITEM	PART NUMBER	DESCRIPTION	QTY.
	195848	TAIL ASSY 900-12FT 235 TIRE	
	195850	TAIL ASSY 900-14FT 235 TIRE	
	195852	TAIL ASSY 900-15FT 235 TIRE	
1	1-647-010004259	SPRING PIN, SLOTTED 3/8X3	2
2	107660	GLIDE U/C 930	2
3	108294	SCREW HXSKT 3/8-16UNCX1-3/4CS	8
4	113214	TUBE RD 2-3/8X1-3/4X49-3/8	2
5	195807	TAIL WLDMT 900-12FT 235	1
6	195812	TAIL WLDMT 900-14FT 235	1
7	195817	TAIL WLDMT 900-15FT 235	1

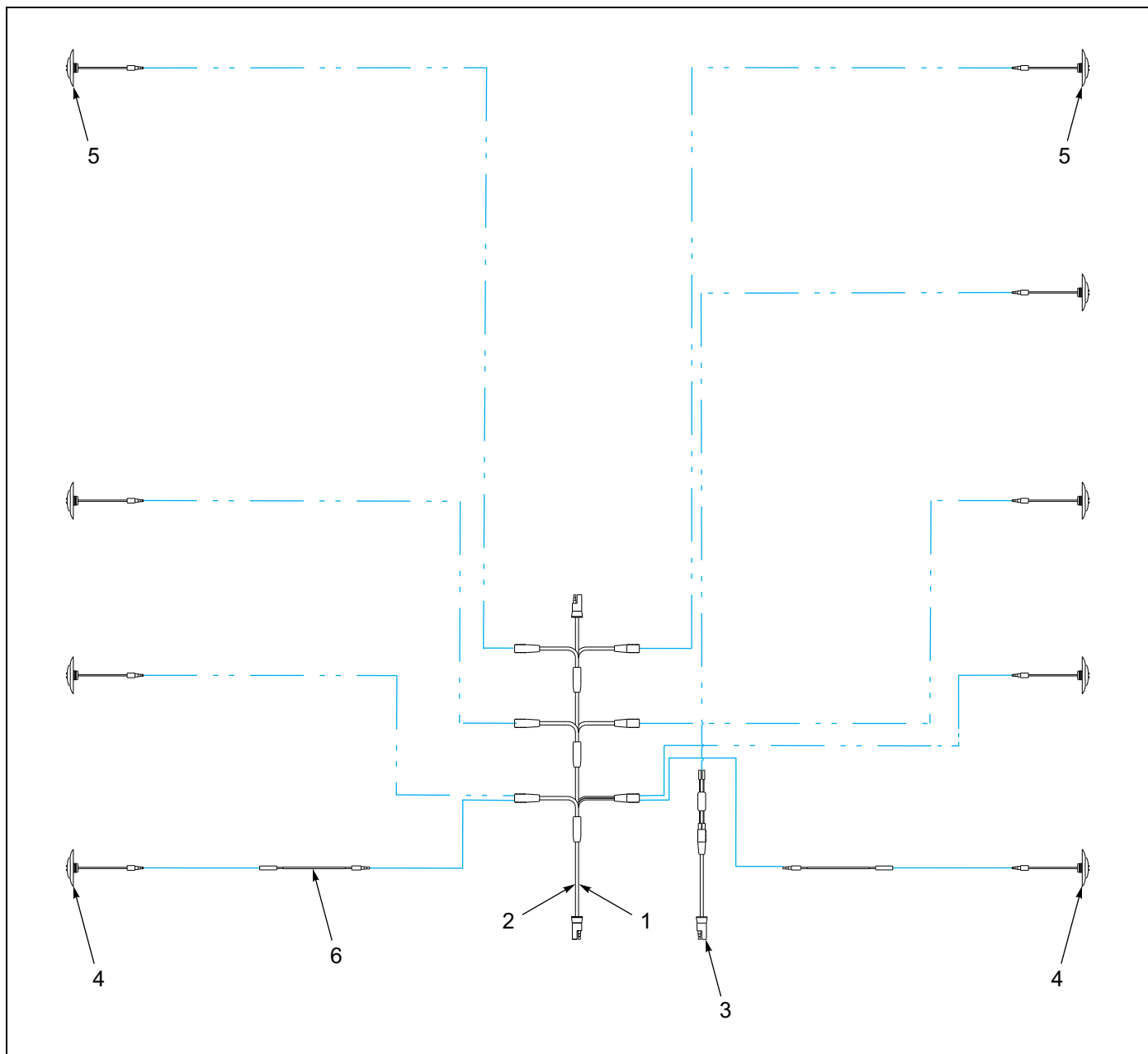


Figure 1-13: Tail Assembly - Electrical System (12', 14', 15')

Tail Assembly - Electrical System (12', 14', 15')

ITEM	PART NUMBER	DESCRIPTION	QTY.		
	195848	TAIL ASSY 900-12FT 235 TIRE	*		
	195850	TAIL ASSY 900-14FT 235 TIRE	*		
	195852	TAIL ASSY 900-15FT 235 TIRE	*		
1	187855	HARNESS MARKER MID DECK	1	1	--
2	187856	HARNESS MARKER MID DECK	--	--	1
3	187858	HARNESS ABS LAMP MICRONOVA	1	1	1
4	187863	LIGHT YEL LED.75CL/MK CLEAR CB	5	5	7
5	187864	LIGHT RED LED.75CL/MK CLEAR CB	2	2	2
6	194410	HARNESS JUMPER LAMP MIRCO-NOVA	2	2	2

Hydraulic Electrical Air

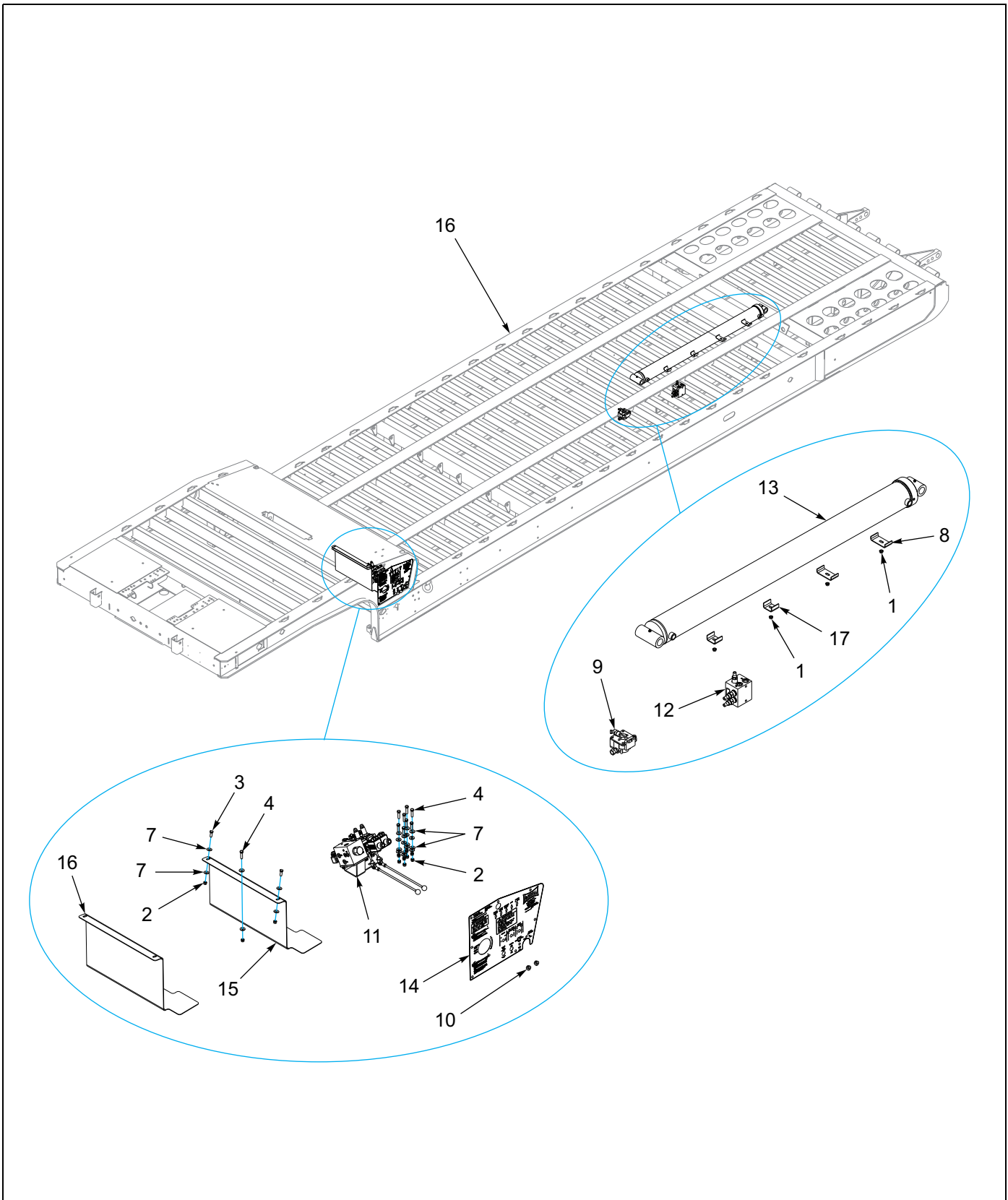


Figure 1-14: General Assembly

General Assembly

ITEM	PART NUMBER	DESCRIPTION	QTY.
	196416	HYD ELECT AIR 900-33 RMT	
	196417	HYD ELECT AIR 900-33 NO RMT	
	196418	HYD ELECT AIR 900-36 RMT	
	196419	HYD ELECT AIR 900-36 NO RMT	
	196420	HYD ELECT AIR 900-38 RMT	
	196421	HYD ELECT AIR 900-38 NO RMT	
	196422	HYD ELECT AIR 900-38 HD RMT	
	196423	HYD ELECT AIR 900-38 HD NO RMT	
	196424	HYD ELECT AIR 900-33RMT SLPENG	
	196425	HYD ELECT AIR 900-33 NR SLPENG	
	196426	HYD ELECT AIR 900-36RMT SLPENG	
	196428	HYD ELECT AIR 900-36 NR SLPENG	
	196429	HYD ELECT AIR 900-38RMT SLPENG	
	196430	HYD ELECT AIR 900-38 NR SLPENG	
	196431	HYD ELEC AIR 900 HD RMT SLPENG	
	196432	HYD ELEC AIR900HD NORMT SLPENG	
1	1-510-010001	NUT, 3/8-16 FLANGE LOCK	4
2	1-512-010005-05	NUT, HEX, SLFLKG GRB 3/8-16	7
3	1-654-010051-05	SCREW,HEX CAP 3/8-16UNCX1 GR5	2
4	1-654-010051-07	SCREW,HEX CAP,3/8-16UNCX1-1/2	5
5	1-796-010003-02	TIE, STRAP, PLASTIC .18X14.0	20
6	1-796-010004-02	TIE, STRAP,PLASTIC .301X13.38	20
7	1-861-010032-11	WASHER, FLAT 3/8 W ZP/CD	14
8	103817	CLAMP,HOSE 660 U/C	2
9	141607	VALVE ASSY AIR BOOSTER (SEE PAGE 1-34)	REF
10	178444	BUSHING NYLON INSERT 9/16ID	2
11	194395	VALVE ASSY 2-SPOOL CONTROL (SEE PAGE 1-35)	REF
12	194400	VALVE COUNTER-BALANCE/RELIEF	REF
13	194401	CYLINDER 5 X 60 (SEE PAGE 1-32)	REF
14	195724	PLACARD CONTROL PANEL 900	REF
15	195725	SHIELD VALVE 900 (USED W/ 196416, 196417, 196418, 196419, 196420, 196421, 196424, 196425, 196426, 196428, 196429, & 196430)	1
16	195726	SHIELD VALVE 900 HD (USED W/ 196422, 196423, 196431, & 196432)	1
17	195738	FRAME WELDMENT, 930-36	REF
18	2-181-010001	HOSE CLAMP	2



Hydraulic System

ITEM	PART NUMBER	DESCRIPTION	QTY.
	196416	HYD ELECT AIR 900-33 RMT	
	196417	HYD ELECT AIR 900-33 NO RMT	
	196418	HYD ELECT AIR 900-36 RMT	
	196419	HYD ELECT AIR 900-36 NO RMT	
	196420	HYD ELECT AIR 900-38 RMT	
	196421	HYD ELECT AIR 900-38 NO RMT	
	196422	HYD ELECT AIR 900-38 HD RMT	
	196423	HYD ELECT AIR 900-38 HD NO RMT	
	196424	HYD ELECT AIR 900-33RMT SLPENG	
	196425	HYD ELECT AIR 900-33 NR SLPENG	
	196426	HYD ELECT AIR 900-36RMT SLPENG	
	196428	HYD ELECT AIR 900-36 NR SLPENG	
	196429	HYD ELECT AIR 900-38RMT SLPENG	
	196430	HYD ELECT AIR 900-38 NR SLPENG	
	196431	HYD ELEC AIR 900 HD RMT SLPENG	
	196432	HYD ELEC AIR900HD NORMT SLPENG	
1	1-397-010302084	HOSE ASSY,1/2X84,SAE37,STR-90	1
2	107756	HOSE ASSY,1/2X24,SAE37,STR-90 (NOT USED / W/ 196430, 196431, & 196432)	1
3	1-397-010302206	HOSE ASSY,1/2X206 SAE37,STR90 (USED W/ 196416, 196417, 196424, & 196425)	2
	100062	HOSE ASSY 1/2X286,SAE37,STR90 (USED W/ 196420, 196421, 196429, & 196430)	2
	101014	HOSE ASSY,1/2X248,SAE37,STR90 (USED W/ 196418, 196419, 196422, 196423, 196426, 196427, 196431, 196432)	2
4	1-397-010305164	HOSE ASSY,3/4X164,SAE37,STR90 (USED W/ 196422, 196423, & 196431)	2
	136224	HOSE ASSY 3/4X136 SAE37 STR90 (USED W/ 196416, 196417, 196418, 196419, 196420, & 196421)	2
5	1-512-010005-05	NUT, HEX, SLFLKG GRB 3/8-16	2
6	1-630-010021-01	RING, 1.5 RETAINING HD	4
7	1-861-010032-11	WASHER, FLAT 3/8 W ZP/CD	4
8	105822	DECAL, HYD COUPLER (SEE PAGE 1-3)	1
9	107657	PIN 1-1/2X6-3/8	1
10	107658	PIN 1-1/2X8-1/4	1
11	129698	SCREW,HXCP,3/8-16UNCX4-1/2GR5	2
12	143163	CONNECTORS FRONT SUB ASSY (SEE PAGE 1-33)	1
13	194395	VALVE ASSY 2-SPOOL CONTROL (SEE PAGE 1-35)	1
14	194400	VALVE COUNTER-BALANCE/RELIEF	1
15	194401	CYLINDER 5 X 60 (SEE PAGE 1-32)	1
16	202702-10-8S	ADAPTER, #10 O-RING #8 TUBE	4
17	2062-12-8S	ADAPTER,90,#12 O-RING-#8 TUBE	2
18	194407	PLUG ASSY DUMMY DEUTSCH 2 PIN (USED W/ 196417, 196419, 196421, 196423, 196425, 196428, & 196430)	4

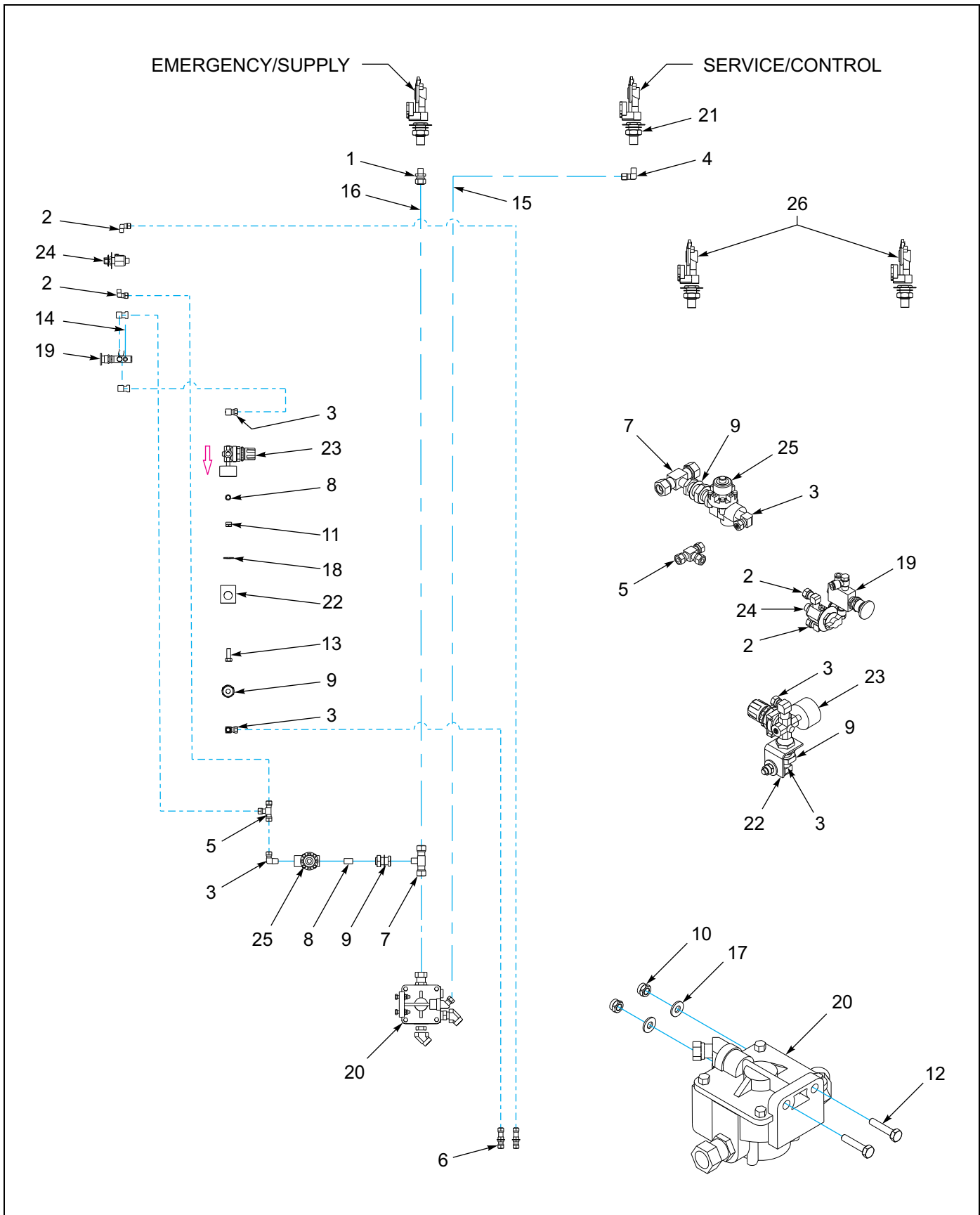


Figure 1-16: Air System

Air System

ITEM	PART NUMBER	DESCRIPTION	QTY.	
	196416	HYD ELECT AIR 900-33 RMT	*	
	196417	HYD ELECT AIR 900-33 NO RMT	*	
	196418	HYD ELECT AIR 900-36 RMT	*	
	196419	HYD ELECT AIR 900-36 NO RMT	*	
	196420	HYD ELECT AIR 900-38 RMT	*	
	196421	HYD ELECT AIR 900-38 NO RMT	*	
	196422	HYD ELECT AIR 900-38 HD RMT	*	
	196423	HYD ELECT AIR 900-38 HD NO RMT	*	*
	196424	HYD ELECT AIR 900-33RMT SLPENG		*
	196425	HYD ELECT AIR 900-33 NR SLPENG		*
	196426	HYD ELECT AIR 900-36RMT SLPENG		*
	196428	HYD ELECT AIR 900-36 NR SLPENG		*
	196429	HYD ELECT AIR 900-38RMT SLPENG		*
	196430	HYD ELECT AIR 900-38 NR SLPENG		*
	196431	HYD ELEC AIR 900 HD RMT SLPENG		*
	196432	HYD ELEC AIR900HD NORMT SLPENG		*
1	1-297-010007-14	FITTING AIR 1/2TUBE X 1/4NPT	1	1
2	1-297-010008-05	FITTING,AIR 90 1/4TUBEX1/8NPT	2	2
3	1-297-010008-07	FITTING AIR 90 1/4TUBEX1/4NPT	3	3
4	1-297-010008-18	FITTING,AIR 90 3/8TUBEX1/4NPT	1	1
5	1-297-010010-01	FITTING,AIR,UNION TEE 1/4	1	1
6	1-297-010014-02	FITTING,AIR,BLKHD UNION 1/4	2	2
7	1-297-010015-09	FITTING,AIR,BR TEE 1/2T-1/4P	1	1
8	1-297-010020-02	FITTING,BRS PIPE,CL NIP 1/4	2	2
9	1-297-010022-02	FITTING,AIR ANCHR CPLG,1/4NPT	2	2
10	1-512-010005-01	NUT,HEX,SLFLKG GRB 1/4-20	2	2
11	1-512-010005-05	NUT, HEX, SLFLKG GRB 3/8-16	1	1
12	1-654-010047-07	SCREW,HX CP 1/4-20UNCX1-1/4G5	2	2
13	1-654-010051-05	SCREW,HEX CAP 3/8-16UNCX1 GR5	1	1
14	1-833-010001	TUBING NYLON 1/4 OD	35	35
15	1-833-010002	TUBING NYLON 3/8 OD	33	33
16	1-833-010003	TUBING NYLON 1/2 OD	31	31
17	1-861-010032-06	WASHER, FLAT 1/4 N ZP/CD	2	2
18	1-861-010032-11	WASHER, FLAT 3/8 W ZP/CD	1	1
19	107887	VALVE AIR PUSH BUTTON	1	1
20	141607	VALVE ASSY AIR BOOSTER (SEE PAGE 1-34)	1	1
21	143163	CONNECTORS FRONT SUB ASSY (SEE PAGE 1-33)	REF	--
22	3-120-010445	BRACKET,PRESSURE REGULATOR660	1	1
23	3-626-010004	REGULATOR, AIR PRESSURE	1	1
24	900-54-088	VALVE, MANUAL OPERATED	REF	REF
25	905-54-107	BRAKE PROTECTION VALVE	1	1
26	145531	CONNECTORS FRONT AIR ONLY	--	1

Remote Components

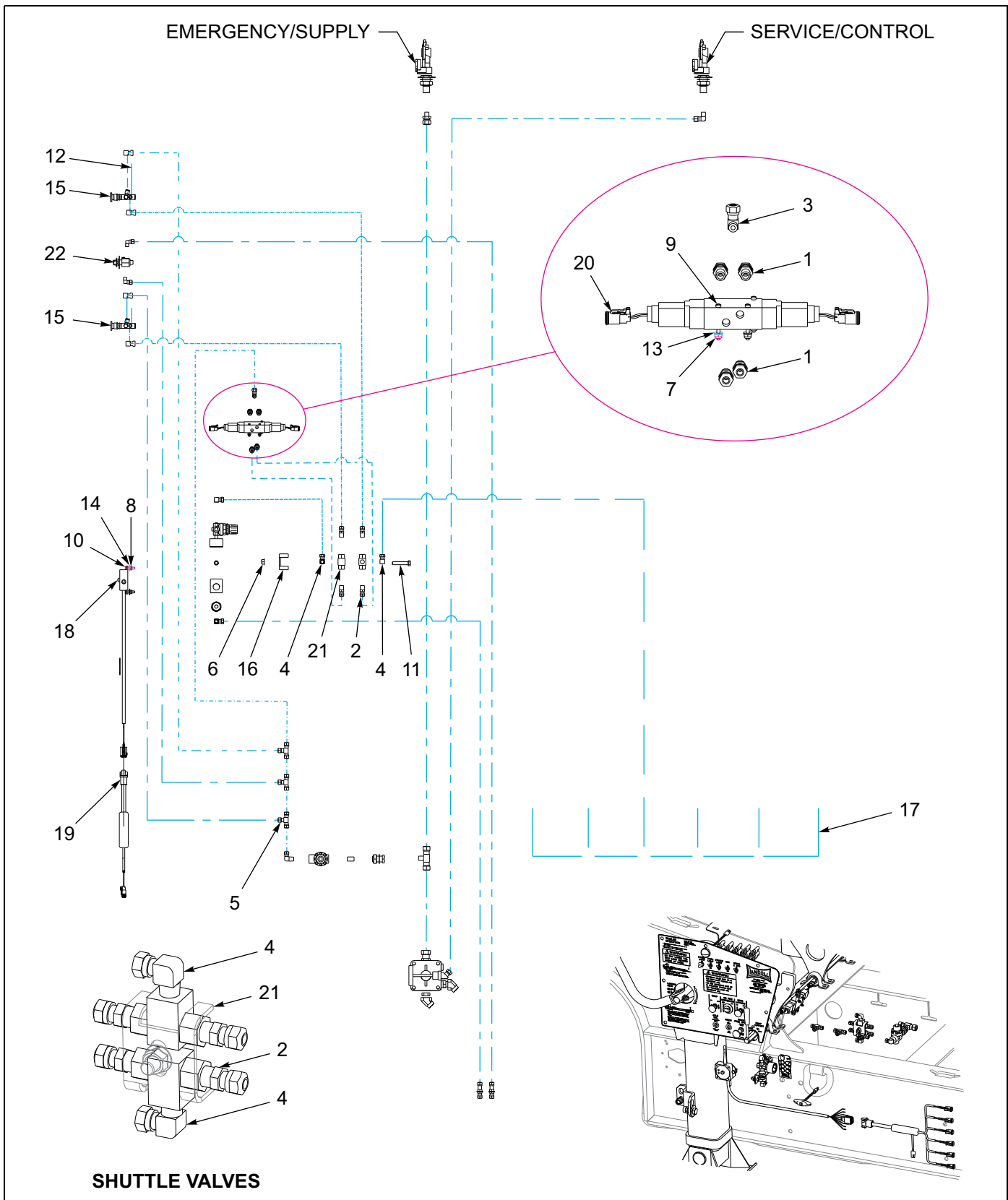


Figure 1-17: Remote Components

Remote Components

ITEM	PART NUMBER	DESCRIPTION	QTY.
	196416	HYD ELECT AIR 900-33 RMT	
	196418	HYD ELECT AIR 900-36 RMT	
	196420	HYD ELECT AIR 900-38 RMT	
	196422	HYD ELECT AIR 900-38 HD RMT	
	196424	HYD ELECT AIR 900-33RMT SLPENG	
	196426	HYD ELECT AIR 900-36RMT SLPENG	
	196429	HYD ELECT AIR 900-38RMT SLPENG	
1	1-297-010007-04	FITTING, AIR, 1/4TUBEX1/8NPT	4
2	1-297-010007-05	FITTING, AIR, 1/4TUBEX1/4NPT	4
3	1-297-010008-05	FITTING,AIR 90 1/4TUBEX1/8NPT	1
4	1-297-010008-07	FITTING AIR 90 1/4TUBEX1/4NPT	2
5	1-297-010010-01	FITTING,AIR,UNION TEE 1/4	1
6	1-510-010001	NUT, 3/8-16 FLANGE LOCK	1
7	1-512-010003-02	NUT,HEX,SLFLKG W/NYL #6-32	3
8	1-512-010005-01	NUT,HEX,SLFLKG GRB 1/4-20	2
9	1-654-010024014	SCREW,MACH,FLSTR,6-32X1-1/2ZP	3
10	1-654-010047-06	SCREW,HX CP 1/4-20UNCX1 GR5	2
11	1-654-010051-09	SCREW,HEX CAP,3/8-16UNCX2 GR5	1
12	1-833-010001	TUBING NYLON 1/4 OD	9
13	1-861-010032-01	WASHER, FLAT #6 ZP/CD	3
14	1-861-010032-07	WASHER,FLAT 1/4 ZP	2
15	107887	VALVE AIR PUSH BUTTON	REF
16	138814	HOSE CLAMP NOTCHED	1
17	139465	RAMP ASSY 6FT 930B D/D (SEE PAGE 1-14)	REF
18	168649	RECEIVER/TRANS MACRO KAR 900	1
19	186882	HARNESS,CONTROL VALVE,DUETSCH	1
20	194406	VALVE PNEUMATIC ASSY 4WAY 3POS	1
21	3-843-010039-02	VALVE-AIR SHUTTLE, 1/4NPT	2
22	900-54-088	VALVE, MANUAL OPERATED	REF

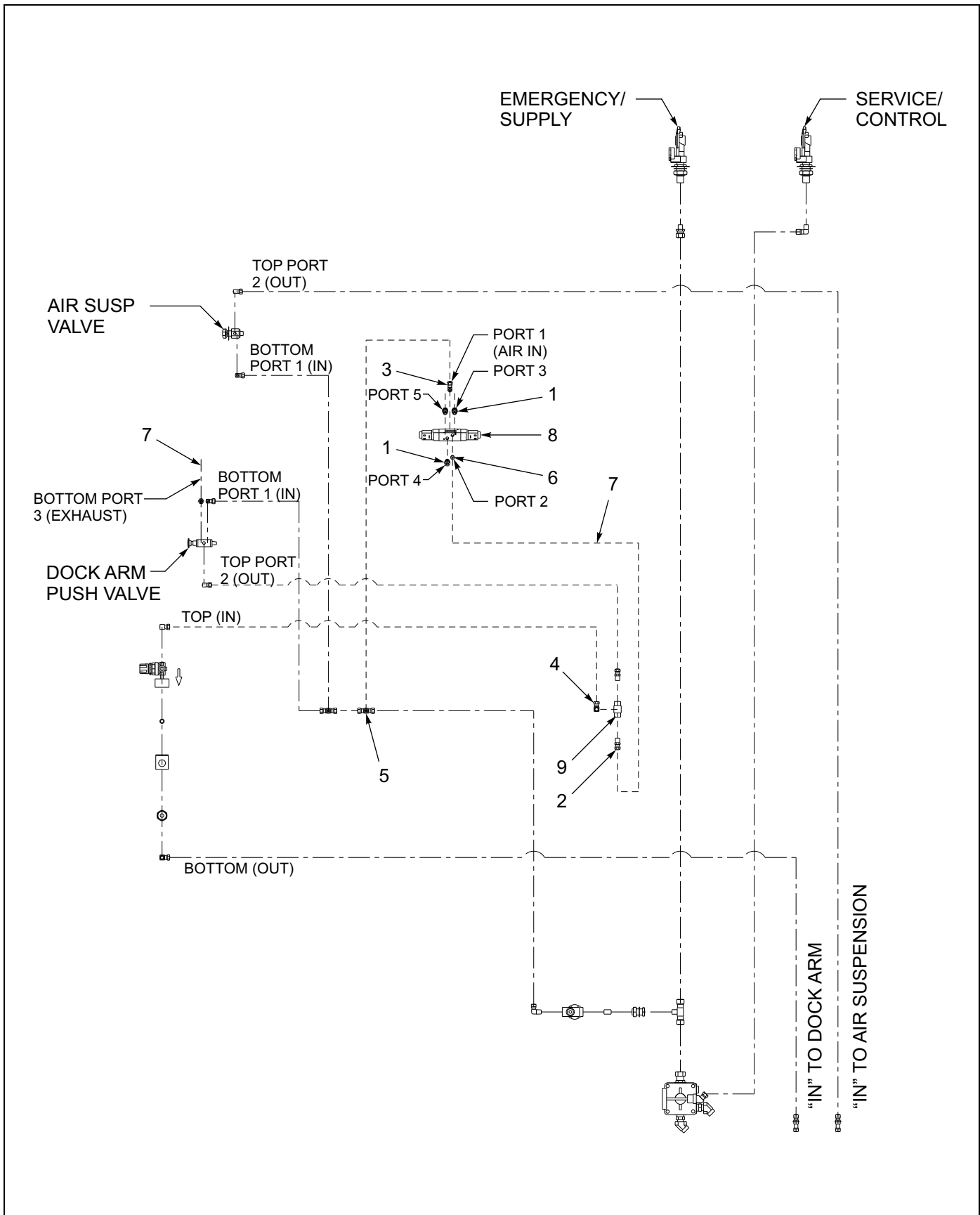
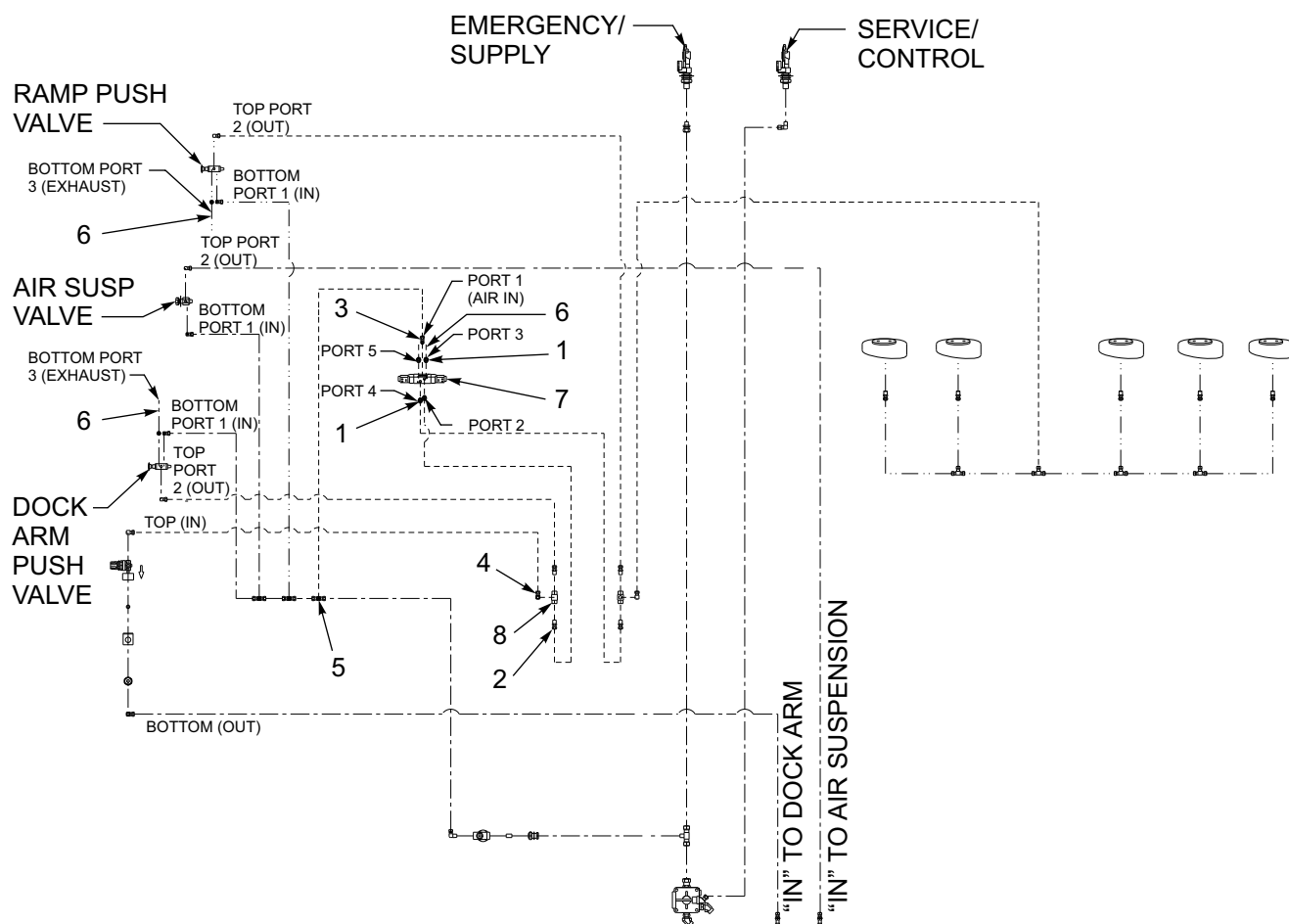


Figure 1-18: Remote Control - Dock Lift Air Items

Remote Control - Dock Lift Air Items

ITEM	PART NUMBER	DESCRIPTION	QTY.
	144615	REMOTE CONTROL - WN/U/L	
1	1-297-010007-04	FITTING, AIR	3
2	1-297-010007-05	FITTING, AIR	2
3	1-297-010008-05	FITTING, AIR 90	1
4	1-297-010008-07	FITTING, AIR 90	1
5	1-297-010010-01	FITTING, AIR UNION TEE	1
6	1-560-010002-01	PLUG, PIPE 1/8	1
7	1-833-010001	TUBING, NYLON 1/4	AR
8	3-843-010015	VALVE, PNEUMATIC 4 WAY, 3 POS	REF
9	3-843-010039-02	VALVE, AIR SHUTTLE	REF



Remote Control - Ramp and Dock Lift Air Items

ITEM	PART NUMBER	DESCRIPTION	QTY.
	140910	REMOTE CONTROL - WN/U/L/R	
1	1-297-010007-04	FITTING, AIR	4
2	1-297-010007-05	FITTING, AIR	4
3	1-297-010008-05	FITTING, AIR 90	1
4	1-297-010008-07	FITTING, AIR 90	2
5	1-297-010010-01	FITTING, AIR UNION TEE	1
6	1-833-010001	TUBING, NYLON 1/4	AR
7	3-843-010015	VALVE, PNEUMATIC 4 WAY, 3 POS	REF
8	3-843-010039-02	VALVE, AIR SHUTTLE	REF

Cylinders & Air Connectors

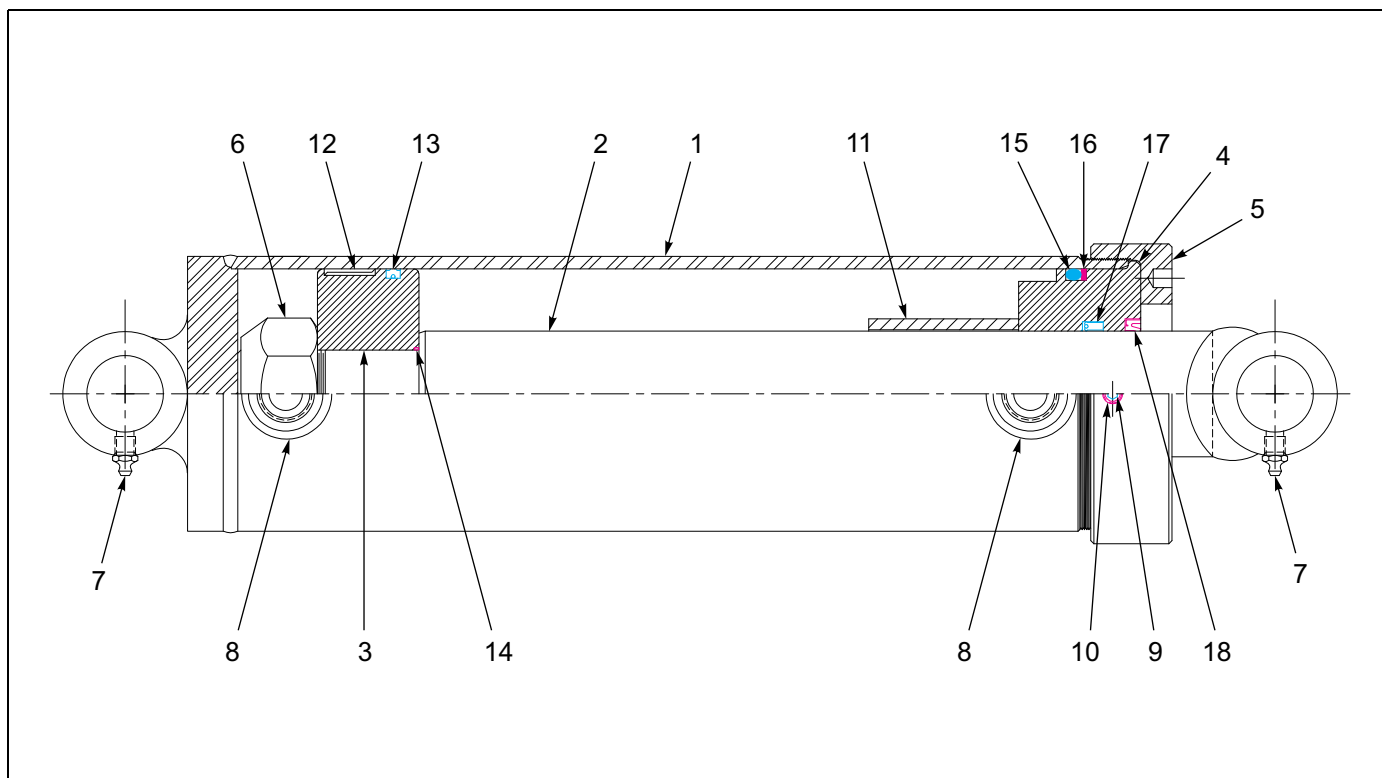


Figure 1-20: Cylinder - 5 X 60

Cylinder - 5 X 60

ITEM	PART NUMBER	REFERENCE NO.	DESCRIPTION	QTY.
	194401		CYLINDER, 5 X 60	
1	----	062100946	BUTT & TUBE ASSY	1
2	114081	----	PISTON ROD ASY	1
3	----	072100181	PISTON	1
4	179002	----	GLAND	1
5	----	262100018	GLAND CAP	1
6	----	220000217	LOCK NUT	1
7	----	270010002	GREASE ZERK	2
8	----	200500007	PORT PLUG	2
9	----	220000701	SET SCREW	1
10	----	220000853	NYLON LOCK	1
11	----	211400029	SPACER	1
12*	----	240011302	BEARING RING	1
13*	----	240060350	CROWN SEAL	1
14*	----	240000031	O-RING	1
15*	----	240000425	O-RING	1
16*	----	240061425	BU-WASHER	1
17*	----	240020013	U-CUP	1
18*	----	250014250	WIPER	1

201641

PMCK-CA-0348

*PACKING KIT (ITEMS 12-18)

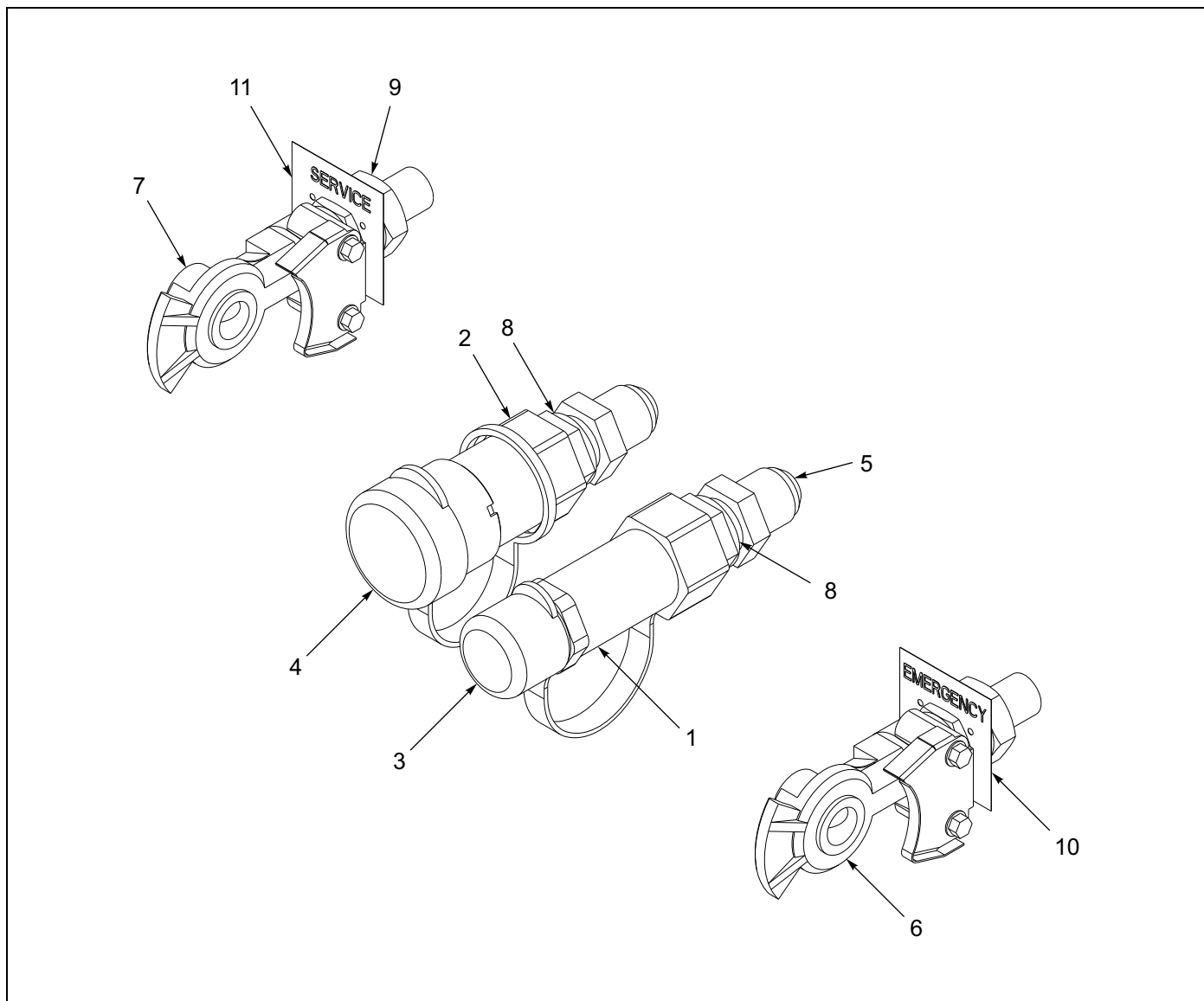


Figure 1-21: Connectors - Front Sub Assembly

Connectors - Front Sub Assembly

ITEM	PART NUMBER	DESCRIPTION	QTY.
	143163	CONNECTORS FRONT SUB ASSY	
1	105479	COUPLER FLAT FACE MALE NOSE	1
2	105480	COUPLER FLAT FACE FEMALE BODY	1
3	105481	COUPLER DUST CAP MALE	1
4	105482	COUPLER DUST CAP FEMALE	1
5	105483	ADAPTER BLKHD 12JIC-12 ORING	2
6	108801	GLAD HAND-RED-AIR	1
7	108802	GLAD HAND-BLUE-AIR	1
8	169365	SPACER HYDR COUPLERS	2
9	55B61	FRAME UNION	2
10	55B61-6	TAG EMER LINE VELVAC 035025	1
11	55B61-7	TAG SERVICE LINE VELVC 035026	1

Valves

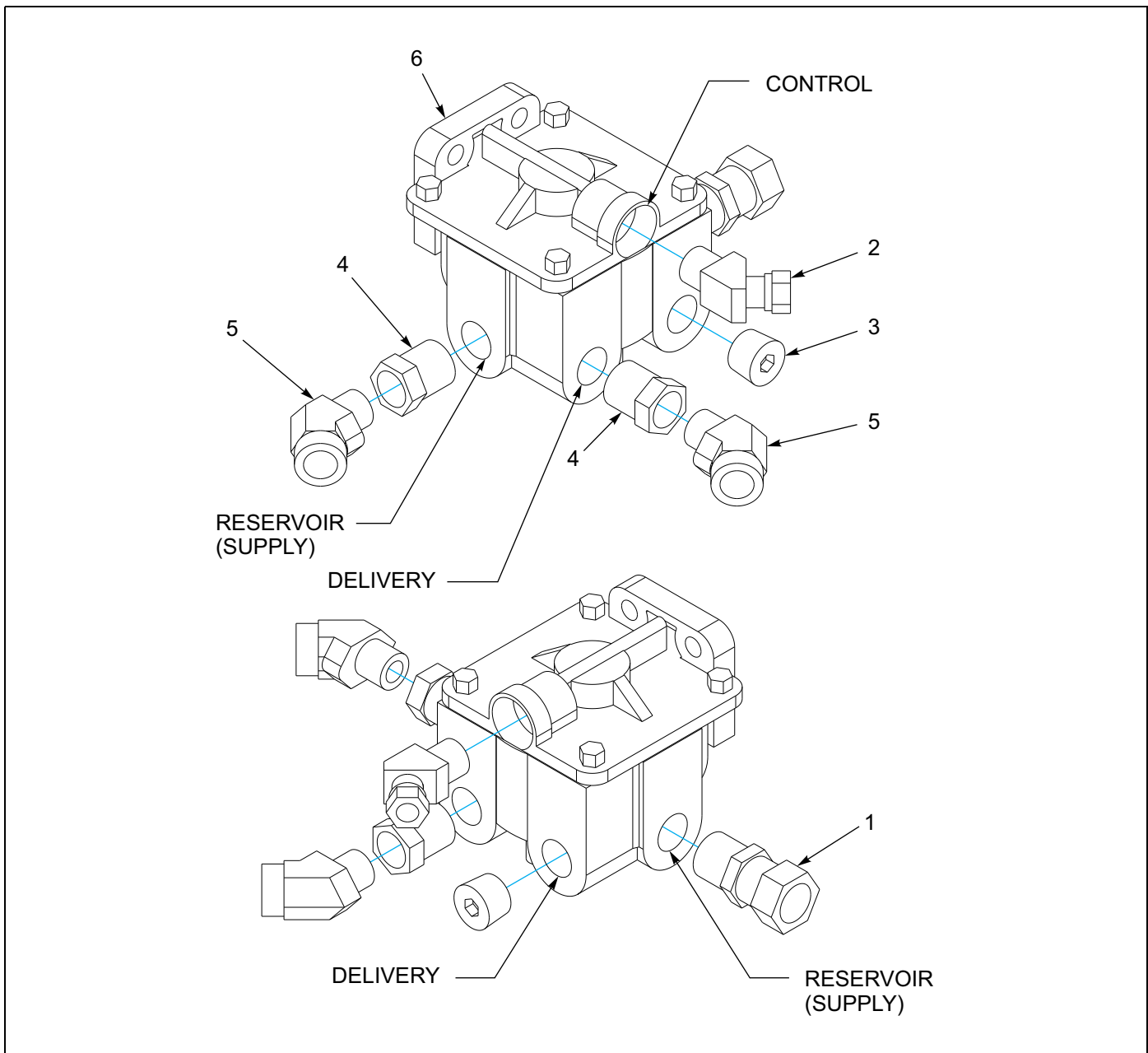


Figure 1-22: Valve Assembly - Air Booster

Valve Assembly - Air Booster

ITEM	PART NUMBER	DESCRIPTION	QTY.
	141607	VALVE ASSY AIR BOOSTER	
1	1-297-010007-16	FITTING AIR 1/2TUBEX1/2 NPT	1
2	1-297-010013-12	FITTING AIR 45 M/ELB3/8TX3/8P	1
3	1-560-010002-04	PLUG, PIPE, 1/2NPT	1
4	2081-8-6S	REDUCER 1/2NPT X 3/8NPT	2
5	2088-6-6S	ADAPTER 45 3/8MPTX3/8FPT	2
6	3-843-010038	VALVE,AIR RELAY FAST AIR BAL	1

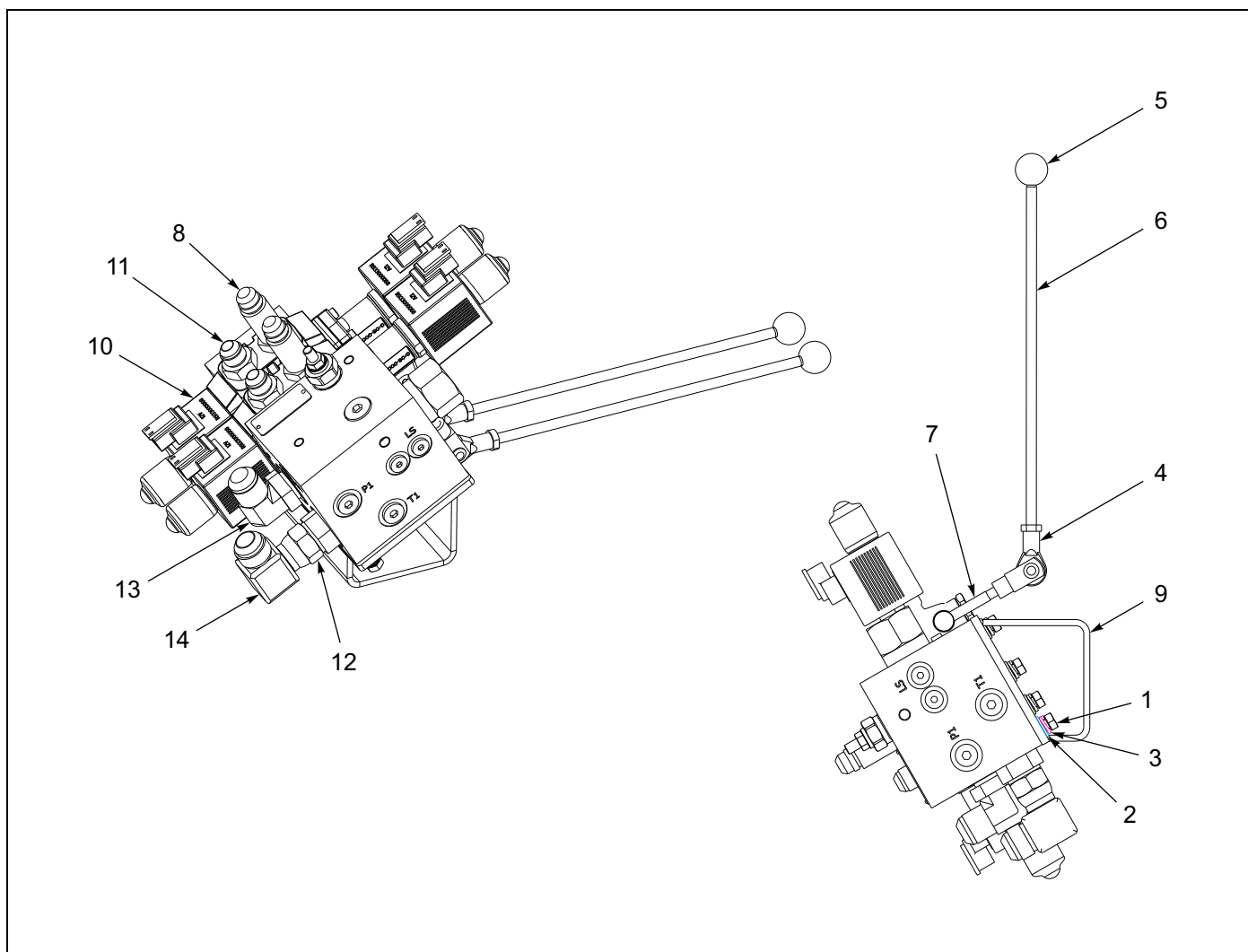


Figure 1-23: Valve Assembly - 2 Spool Control

Valve Assembly - 2 Spool Control

ITEM	PART NUMBER	DESCRIPTION	QTY.
	194395	VALVE ASSY 2-SPOOL CONTROL	
1	1-654-010049-03	SCREW HX CP 5/16-18UNCX3/4GR5	4
2	1-861-010032-08	WASHER,FLAT 5/16 ZP	4
3	1-861-010034-10	WASHER,LKG 5/16	4
4	186875	CLEVIS JOINT,ROD ENDS M8.1.25	2
5	186877	KNOB,1" ROUND,M8X1.25 THD	2 REF
6	186878	ROD HANDLE M8X1.25 ENDS	2 REF
7	186902	STUD M8X1.25X65MM,DBL THD	2
8	189285	ADAPTER STR LONG #10 ORB#8MJIC	2
9	194396	MOUNT WLDMT 2-SPOOL VALVE	1
10	194402	VALVE 2-SPOOL (SEE PAGE 1-36)	1
11	202702-10-8S	ADAPTER, #10 O-RING #8 TUBE	2
12	202702-12-12S	ADAPTER,#12 O-RING X #12 TUBE	1
13	2062-12-12S	ADAPTER,90,#12 O-RINGX#12TUBE	1
14	2071-12-12S	ADAPTER 90 #12FLR SWVL #12JIC	1

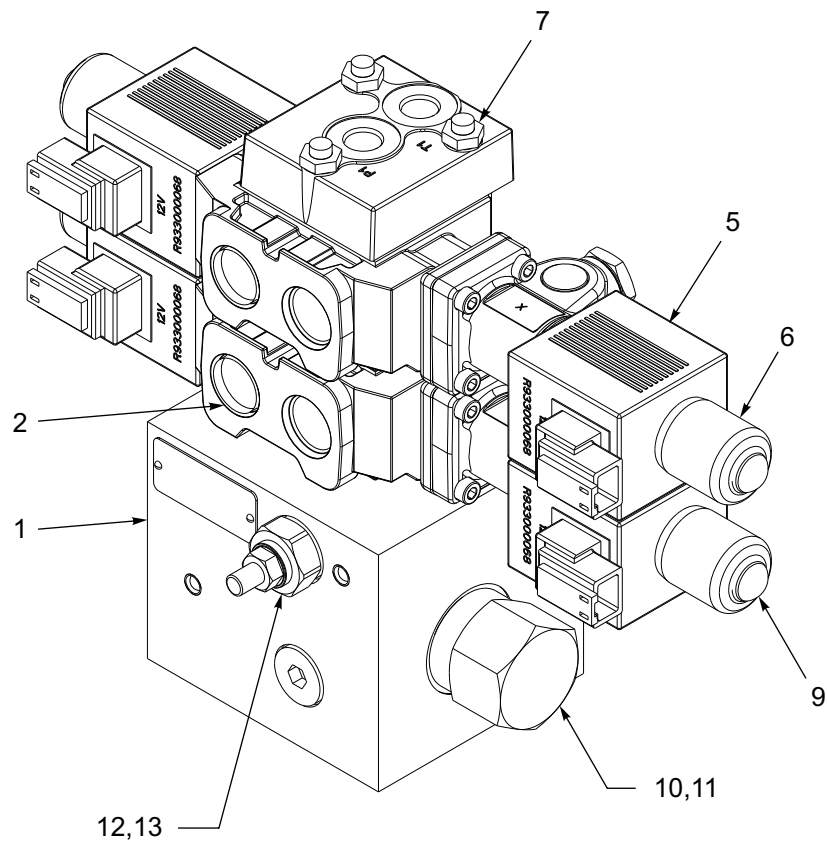


Figure 1-24: Valve Assembly - 2 Spool Solenoid

Valve Assembly - 2 Spool Solenoid

ITEM	PART NUMBER	DESCRIPTION	QTY.
	194402	VALVE, 2 SPOOL SOLENOID	
1	191847	INLET SECTION KIT	1
2	191848	VALVE SECTION KIT	2
3	191849	HANDLE ASSY (NOT SHOWN)	1
4	191850	HANDLE ASSY (NOT SHOWN)	1
5	193400	COIL	1
6	193401	RUBBER BOOT	1
7	193403	BOLT KIT	1
8	193442	VALVE SECTION SEAL KIT (NOT SHOWN)	1
9	193443	COIL NUT SEAL KIT	1
10	193444	BY-PASS COMENSATOR	1
11	193445	SEAL KIT FOR COMPENSATOR	1
12	193446	LOAD SENSE RELIEF	1
13	193447	LOAD SENSE RELIEF SEAL KIT	1

Electrical

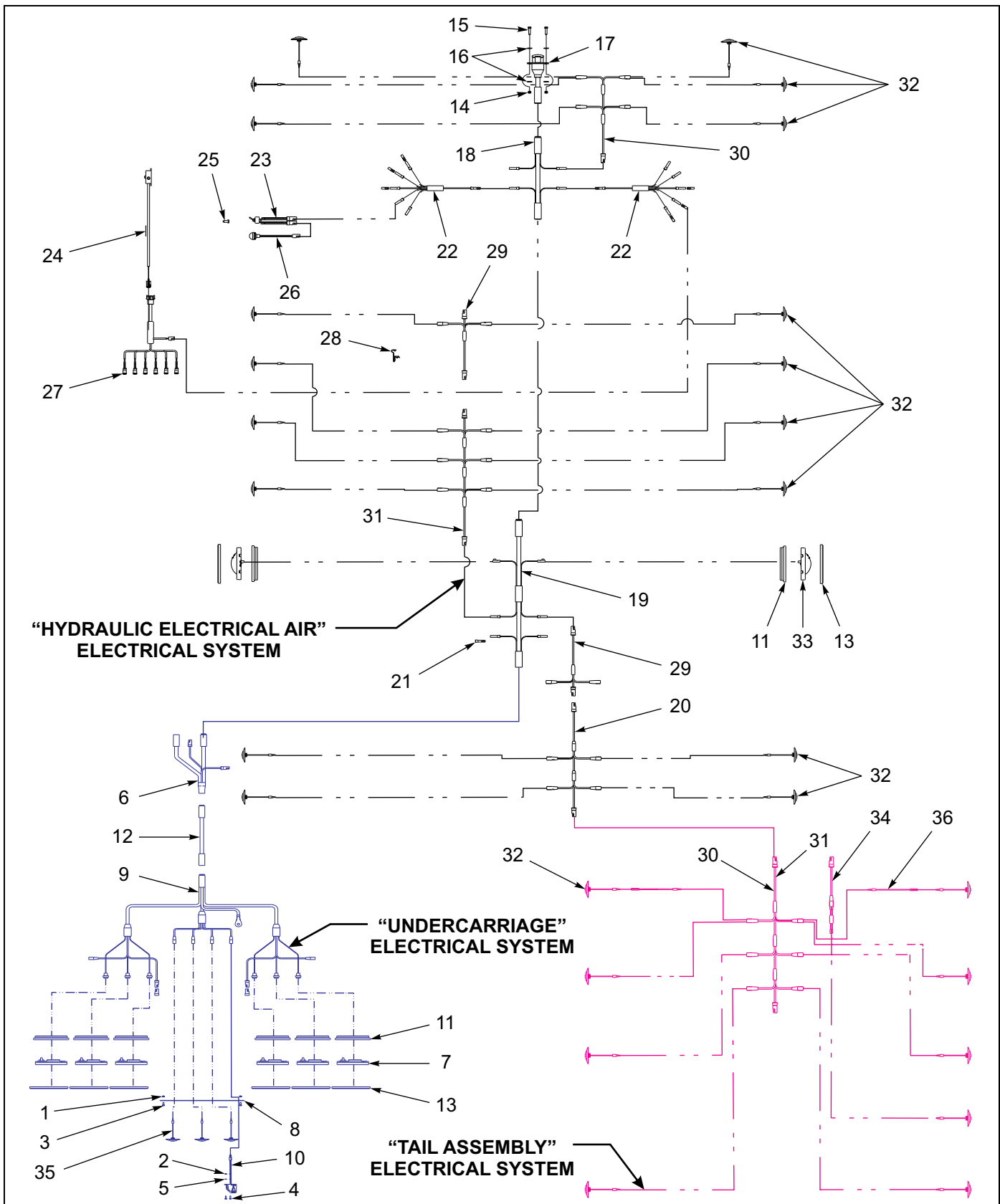


Figure 1-25: Electrical System

Electrical System

ITEM	PART NUMBER	DESCRIPTION	QTY.				
	196418	HYD ELECT AIR 900-36 RMT	*				
	196420	HYD ELECT AIR 900-38 RMT		*			
	195848	TAIL ASSY 900-12FT 235 TIRE			*		
	195850	TAIL ASSY 900-14FT 235 TIRE			*		
	195852	TAIL ASSY 900-15FT 235 TIRE				*	
	196390	SUSP ASSY 930-12 2512-77					*
	196398	SUSP ASSY 930-15 2512-77					*
	196403	SUSP ASSY 950-12 2512-77					*
1	1-512-010005-01	NUT,HEX,SLFLKG GRB 1/4-20	--	--	--	--	2
2	1-512-010007-03	NUT, HEX 10-24	--	--	--	--	2
3	1-654-010158-1	SCREW,RHD,SQ NCK,1/4-20UNC	--	--	--	--	2
4	1-656-010003051	SCREW,RH HD MACH 10-24X3/4	--	--	--	--	2
5	1-861-010034-07	WASHER,LKG,HLCL SPR, NO 10	--	--	--	--	2
6	143103	HARNESS ECHAIN GROTE	--	--	--	--	1
7	179902	LIGHT S/T/T RED CLEAR LENS GRT	--	--	--	--	6
8	179906	PLATE MTG MICRO ID LIGHTS	--	--	--	--	1
9	187859	HARNESS BUMPER MICRONOVA GROTE	--	--	--	--	1
10	187860	LIGHT ASSY LICENSE LED GROTE	--	--	--	--	1
11	143114	GROMMET OVAL GROTE	2	2	--	--	6
12	143167	HARNESS EXT 84 IN GROTE	1	1	--	--	1
13	180570	COVER CHROME OBLONG GROMMET	2	2	--	--	6
14	1-512-010005-03	NUT HEX SLFLKG GRB 5/16-18	2	2	--	--	--
15	1-654-010049-06	SCREW,H/CAP,5/16-18UNCX1-1/4	2	2	--	--	--
16	1-861-010032-09	WASHER, FLAT 5/16 W ZP/CD	4	4	--	--	--
17	143100	HARNESS 7WAY RECP GROTE	1	1	--	--	--
18	143101	HARNESS FRONT MAIN GROTE	1	1	--	--	--
19	143102	HARNESS BED MAIN GROTE	1	1	--	--	--
20	194411	HARNESS MARKER FRAME REAR	1	1	--	--	--
21	143121	DUMMY PLUG MALE/FEM BULLET	REF	REF	--	--	--
22	150093	HARNESS 5 AUX BRANCHES GROTE	2	2	--	--	--
23	150117	SWITCH ASSY LIGHT GROTE	1	1	--	--	--
24	168649	RECEIVER/TRANS MACRO KAR 900 (SEE PAGE 1-40)	REF	REF	--	--	--
25	81264	RUBBER BOOT FOR ELECT SWITCH	1	1	--	--	--
26	185059	LIGHT,LED COURTESY, GROTE	1	1	--	--	--
27	186882	HARNESS,CONTROL VALVE,DUETSCH	REF	REF	--	--	--
28	187833	CLIP HARNESS, CROSS-MEMBER	100	100	--	--	--
29	187857	HARNESS MARKER ADDITION	1	2	--	--	--
30	187855	HARNESS MARKER UPR DECK	1	1	1	--	--
31	187856	HARNESS MARKER MID DECK	1	1	--	1	--
32	187863	LIGHT YEL LED.75CL/MK CLEAR CB	18	20	5	7	--
33	187868	LIGHT MID-TURN LED CLEAR LENS	2	2	2	2	--
34	187858	HARNESS ABS LAMP MICRONOVA	--	--	1	1	--
35	187864	LIGHT RED LED.75CL/MK CLEAR CB	--	--	2	2	3
36	194410	HARNESS JUMPER LAMP MIRCO-NOVA	--	--	2	2	--

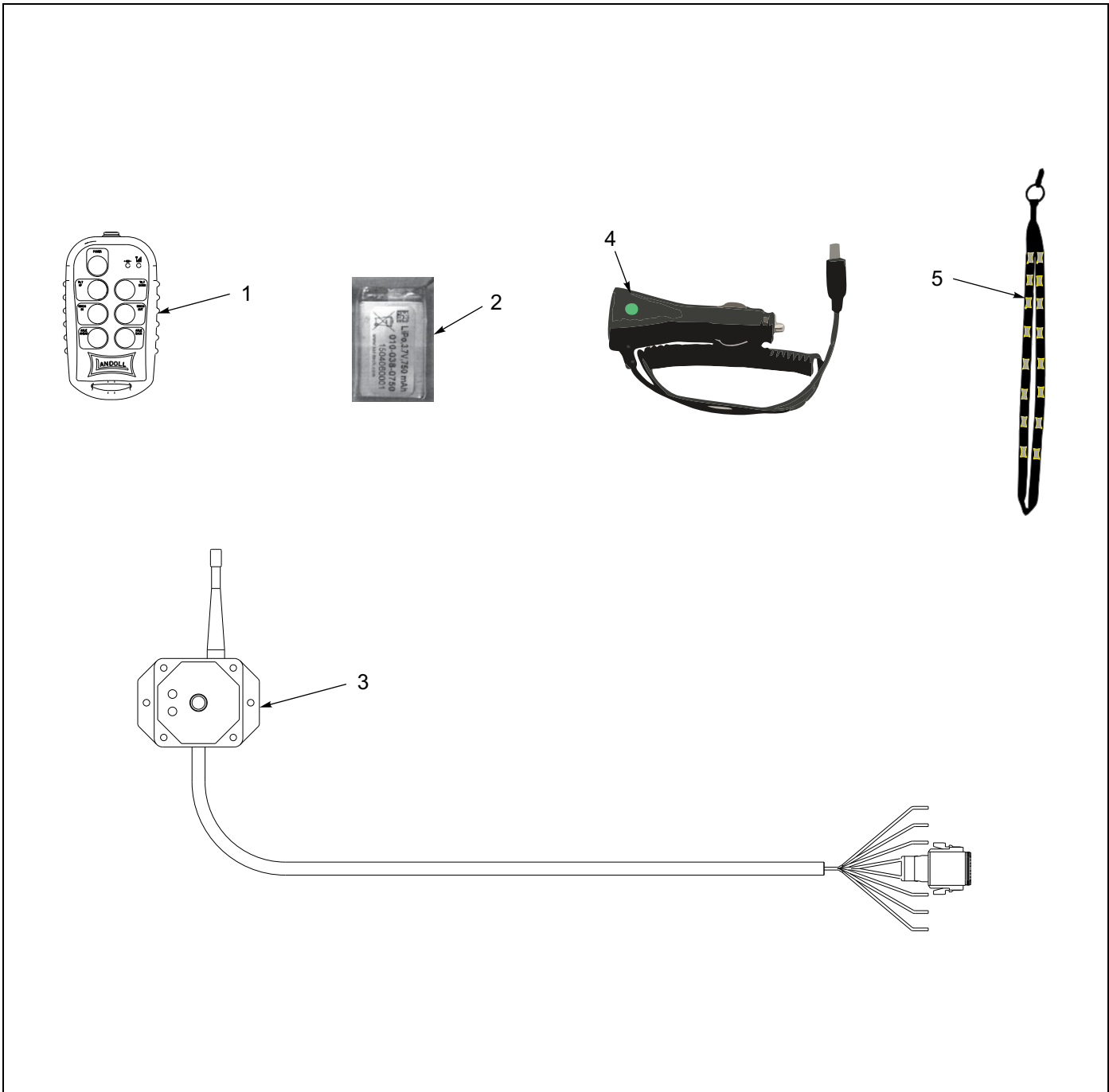


Figure 1-26: Receiver Transmitter - Macro Kar 900

Receiver Transmitter - Macro Kar 900

ITEM	PART NUMBER	DESCRIPTION	QTY.
	168649	RECEIVER/TRANS MACRO KAR 900	
1	168978	TRANSMITTER MACRO 900	1
2	197460	BATTERY REPLACE, KARTECH MACRO	1
3	175583	RECEIVER ASSY, KAR-TECH	1
4	168976	CHARGER 12V TO MICRO USB	1
5	168979	LANYARD LANDOLL	1

Undercarriage

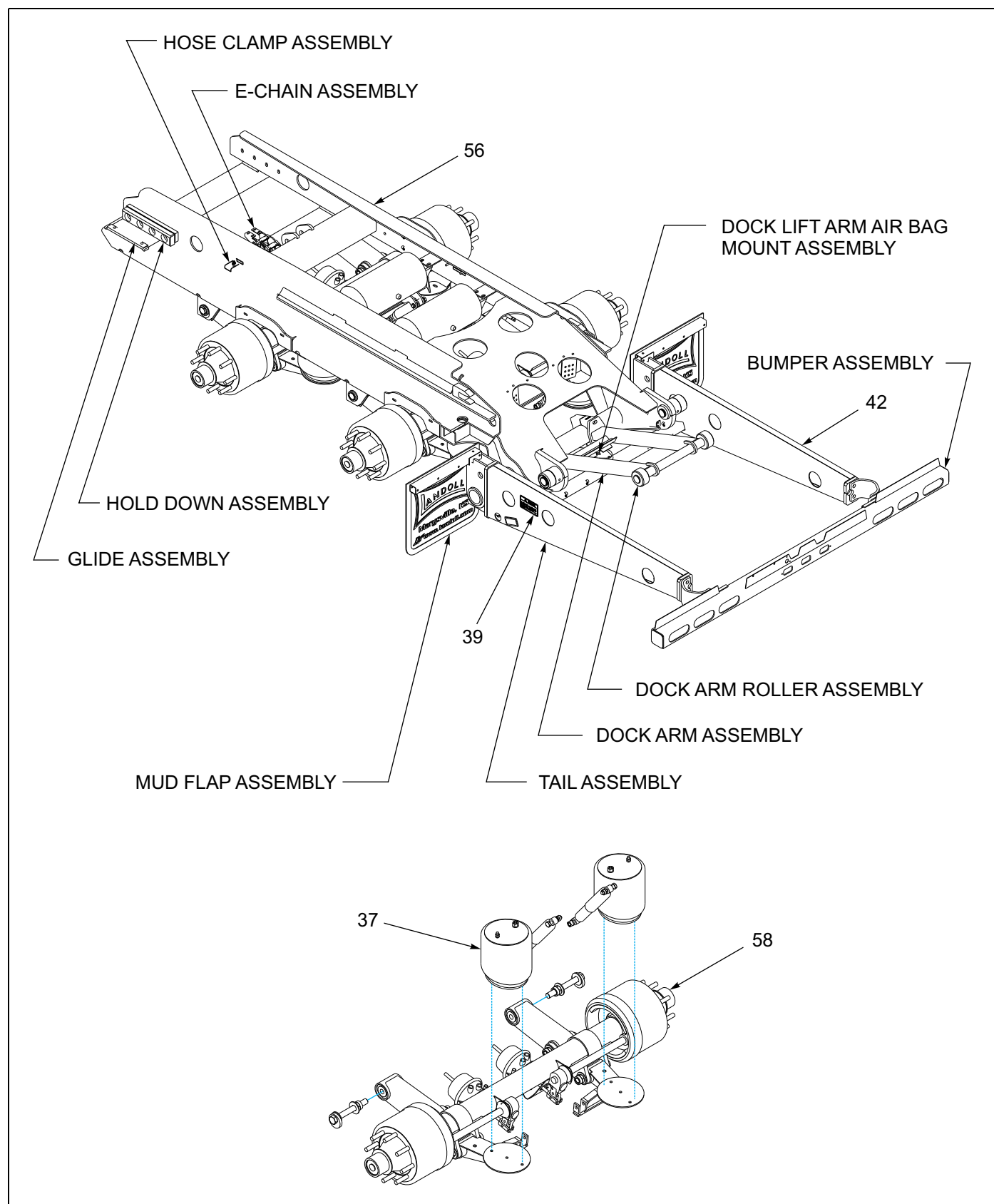
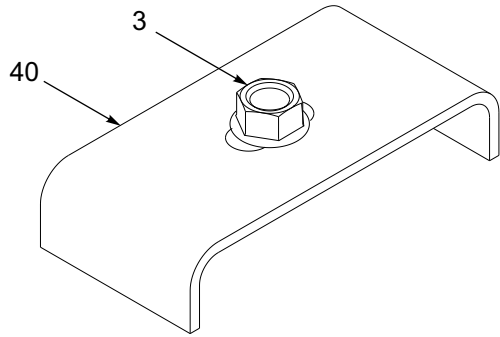
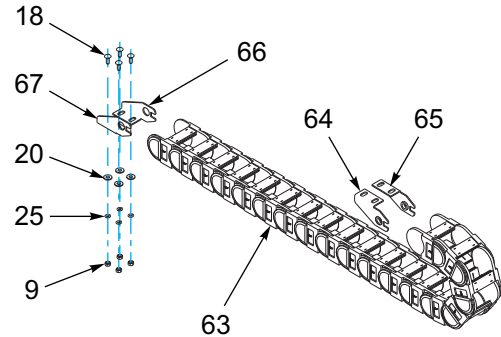


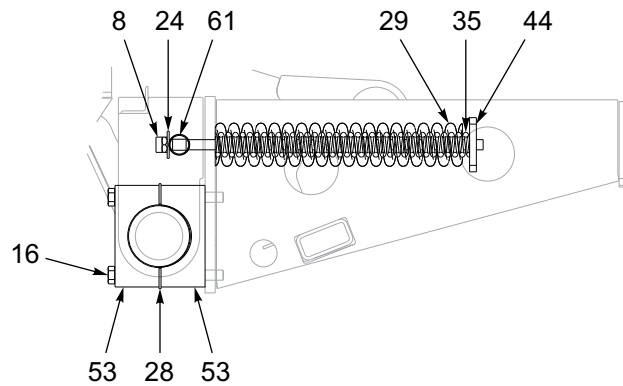
Figure 1-27: General Items - 930D (1 of 3)



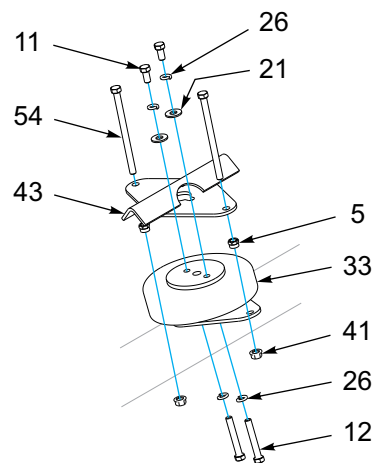
CLAMP ASSEMBLY



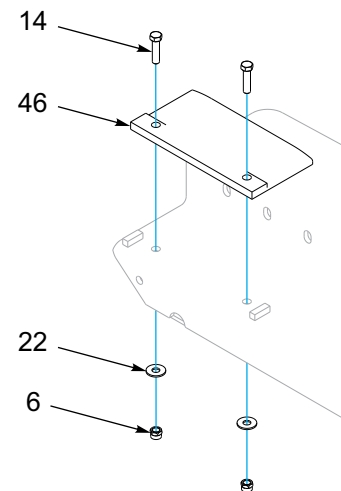
E-CHAIN ASSEMBLY



TAIL ASSEMBLY

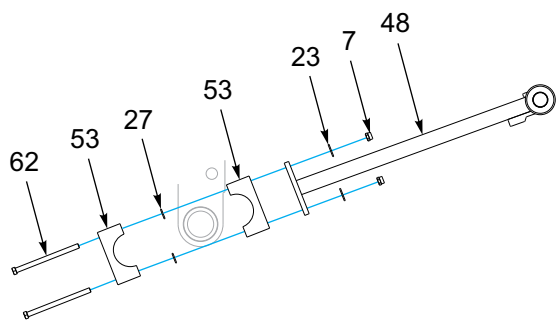


**DOCK LIFT ARM
AIR BAG MOUNT ASSEMBLY**

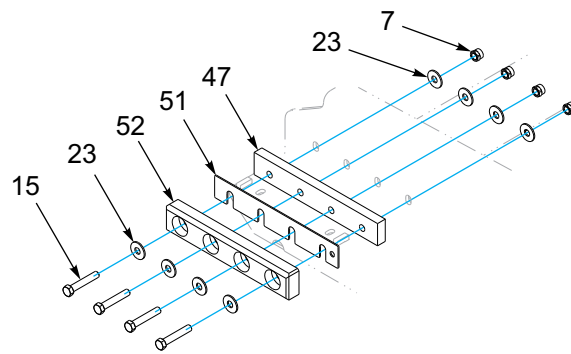


GLIDE ASSEMBLY

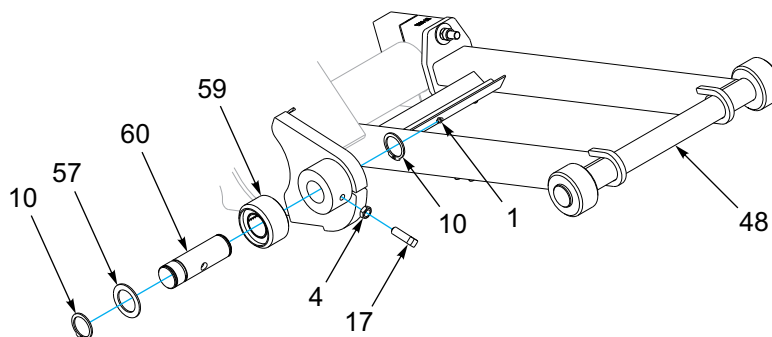
Figure 1-28: General Items - 930D (2 of 3)



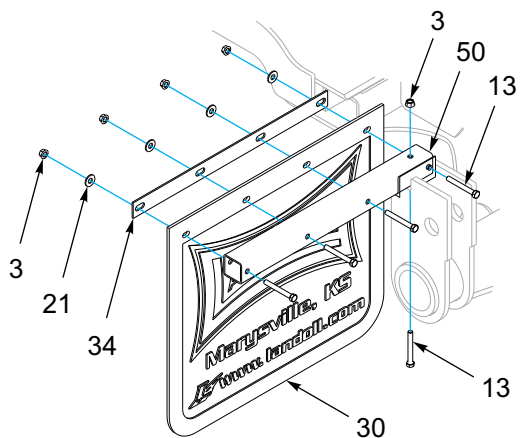
DOCK ARM ASSEMBLY



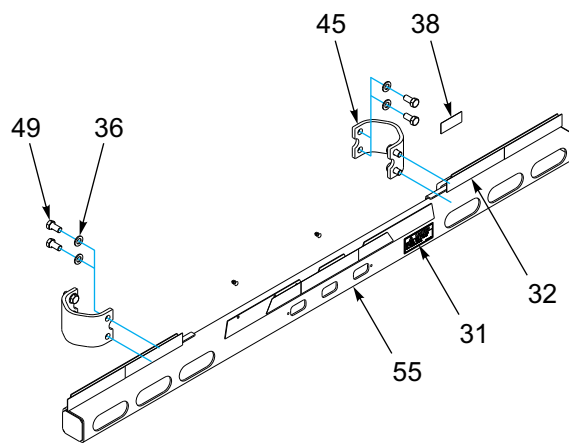
HOLD DOWN ASSEMBLY



DOCK ARM ROLLER ASSEMBLY



MUD FLAP ASSEMBLY



BUMPER ASSEMBLY

Figure 1-29: General Items - 930D (3 of 3)

General Items - 930D

ITEM	PART NUMBER	DESCRIPTION	QTY.			
	196390	SUSP ASSY 930-12 2512-77	*			
	196394	SUSP ASSY 930-14 2512-77	*			
	196398	SUSP ASSY 930-15 2512-77	*			
	196391	SUSP ASSY 930-12 2512-77 TIS		*		
	196395	SUSP ASSY 930-14 2512-77 TIS		*		
	196399	SUSP ASSY 930-15 2512-77 TIS		*		
	196392	SUSP ASSY 930-12 2516-75			*	
	196396	SUSP ASSY 930-14 2516-75			*	
	196400	SUSP ASSY 930-15 2516-75			*	*
	196393	SUSP ASSY 930-12 2516-75 TIS				*
	196397	SUSP ASSY 930-14 2516-75 TIS				*
	196401	SUSP ASSY 930-15 2516-75 TIS				
1	1-298-010001-1	ZERK FITTING 1/4 SAE	2	2	2	2
2	1-394-010001	HOSE ABRASION SLEEVE X2 (NOT SHOWN)	2	2	2	2
3	1-510-010001	NUT, 3/8-16 FLANGE LOCK	15	15	15	15
4	1-511-010001-07	NUT, HEX JAM 5/8-11	2	2	2	2
5	1-512-010005-05	NUT, HEX, SLFLKG GRB 3/8-16	2	2	2	2
6	1-512-010005-09	NUT,HEX,SLFLKG, 1/2-13 GRB	4	4	4	4
7	1-512-010005-13	NUT,HEX SLFLKG GRB 5/8-11	4	4	4	4
8	1-512-010005-15	NUT,HEX,SLFLKG GRB 3/4-10	2	2	2	2
9	1-512-010007-05	NUT, HEX 1/4-20	4	4	4	4
10	1-630-010021-02	RING, RETAINING 2 HD	4	4	4	4
11	1-654-010051-03	SCREW,HEX CAP,3/8-16UNCX3/4G5	2	2	2	2
12	1-654-010051-11	SCREW HX CP 3/8-16X2-1/2 G5ZP	2	2	2	2
13	1-654-010051-13	SCREW,HX CP,3/8-16UNCX3,GR5	10	10	10	10
14	1-654-010055-05	SCREW,HEX CAP,1/2-13UNCX2 GR5	4	4	4	4
15	1-654-010059-11	SCREW,HX CP 5/8-11UNCX3.5GR5	REF	REF	REF	REF
16	1-654-010061-21	SCREW,HX CP,3/4-10UNCX8	4	4	4	4
17	1-654-010150-05	SCREW,SET,5/8X2 SQ HD CP PNT	2	2	2	2
18	1-654-010158-1	SCREW,RHD,SQ NCK,1/4-20UNC	6	6	6	6
19	1-843-010014	VALVE EXTENSION,STEM (NOT SHOWN)	4	--	4	--
20	1-861-010032-07	WASHER,FLAT 1/4 ZP	4	4	4	4
21	1-861-010032-11	WASHER, FLAT 3/8 W ZP/CD	10	10	10	10
22	1-861-010032-15	WASHER, FLAT 1/2 W ZP/CD	4	4	4	4
23	1-861-010032-19	WASHER, FLAT 5/8 W ZP/CD	4	4	4	4
24	1-861-010032-21	WASHER, FLAT 3/4 W ZP/CD	2	2	2	2
25	1-861-010034-09	WASHER, LKG HLCL SPR, 1/4	4	4	4	4
26	1-861-010034-11	WASHER, LKG HLCL SPR, 3/8	4	4	4	4
27	2-684-010001	SHIM ROCK SHAFT BEARING	4	4	4	4
28	2-684-010045	SHIM,ROCKSHAFT BEARING 3/4"	4	4	4	4
29	2-720-010008	SPRING-SPRING CLAMP	2	2	2	2
30	3-485-010001	FLAP, MUD 21 IN	2	2	2	2
31	3-573-010031	DECAL TRAILER BUMPER (SEE PAGE 1-3)	1	1	1	1
32	3-573-010377	DECAL,2"REFLEXITE TAPE,RD/WHT (SEE PAGE 1-3)	84	84	84	84
33	3-720-010042	SPRING AIR 6-1/2	1	1	1	1
34	3-762-010017	CLAMP MUD FLAP	2	2	2	2

General Items - 930D

ITEM	PART NUMBER	DESCRIPTION	QTY.			
35	8-720-010013	SPRING COMPRESSION REEL (USED ON 14' & 15' TAIL TRAILERS)	2	2	2	2
36	622-3511-008	WASHER, FLAT 3/4 MIL-CARB SAE	8	8	8	8
37	102363	SUSPENSION,ADJ RLU-228-3.5 (SEE PAGE 1-62)	2	2	--	--
	102364	SUSPENSION,ADJ RLU-228-5.5 (SEE PAGE 1-62)	--	--	2	2
38	103055	PLACARD, ENERGY BUMPER CERT	1	1	1	1
39	103056	DECAL, ENRGY BUMPR WARNING (SEE PAGE 1-3)	1	1	1	1
40	103817	CLAMP,HOSE 660 U/C	5	5	5	5
41	107470	NUT,SPIRALOCK 3/8-16HX	2	2	2	2
42	107582	BUMPER ARM WLDMT 12' TAIL (USED W/ 196390, 196391, 196392, & 196393)	1	1	1	1
	110649	BUMPER ARM WLDMT 14' TAIL (USED W/ 196394, 196395, 196396, & 196397)	1	1	1	1
	109120	BUMPER ARM WLDMT 15' TAIL (USED W/ 196398, 196399, 196400, & 196401)	1	1	1	1
43	107588	PLATE WLDMT LIFT GUIDG	1	1	1	1
44	107591	ROD WLDMT SPG TENS BMPR	2	2	2	2
45	107594	MOUNT BUMPER ENERGY PAK	2	2	2	2
46	107621	GLIDE U/C 930	2	2	2	2
47	107622	BLOCK MTG NYLNL HOLDDOWN	REF	REF	REF	REF
48	107732	DOCK WLDMT, LIFT ARM	1	1	1	1
49	108705	SCREW,HEXCAP,3/4-10X1-1/2 GR8	8	8	8	8
50	108746	BRACKET, MUD FLAP 930	2	2	2	2
51	108749	SHIM,NYLATRON BLOCK 930	REF	REF	REF	REF
52	109138	NYLATRON HOLD-DOWN BLK	REF	REF	REF	REF
53	109158	BEARING CAST BUMPER PVT	8	8	8	8
54	109207	SCREW 3/8-16X6 HHCS FULLTHRD	2	2	2	2
55	109524	BUMPER WLDMT 930 L TAIL	1	1	1	1
56	113562	UNDERCARRIAGE WELDMNT 930	1	1	1	1
57	114562	BUSHING MACHINE HARD 3X2X10GA	2	2	2	2
58	115747	AXLE WLDMT 2512 SPG 77 39.5 (SEE PAGE 1-64)	2	--	--	--
	136258	AXLE WLDMT 2512 SPG 77 39.5 TIS (SEE PAGE 1-64)	--	2	--	--
	115749	AXLE WLDMT 2516 SPG 75 39.5 (SEE PAGE 1-66)	--	--	2	--
	139622	AXLE WLDMT 2516 SPG 75 39.5 TIS (SEE PAGE 1-66)	--	--	--	2
59	135613	ROLLER 4 IN. ASSY CONNEX	2	2	2	2
60	135615	PIN ROLLERS REAR 930 U/C	2	2	2	2
61	142457	PIN SPRING 930 BUMPER	2	2	2	2
62	171892	SCREW, HEX CAP 5/8-11UNCX9 GR5	4	4	4	4
63	189320	SUPPORT, E-CHAIN,18 LINKS,3838	1	1	1	1
64	190701	BRACKET WLDMT E-CHAIN LH	1	1	1	1
65	190706	BRACKET WLDMT E-CHAIN RH	1	1	1	1
66	190700ZP	ZINC PLATE BRACKET E-CHAIN LH	1	1	1	1
67	190705ZP	ZINC PLATE BRACKET E-CHAIN RH	1	1	1	1

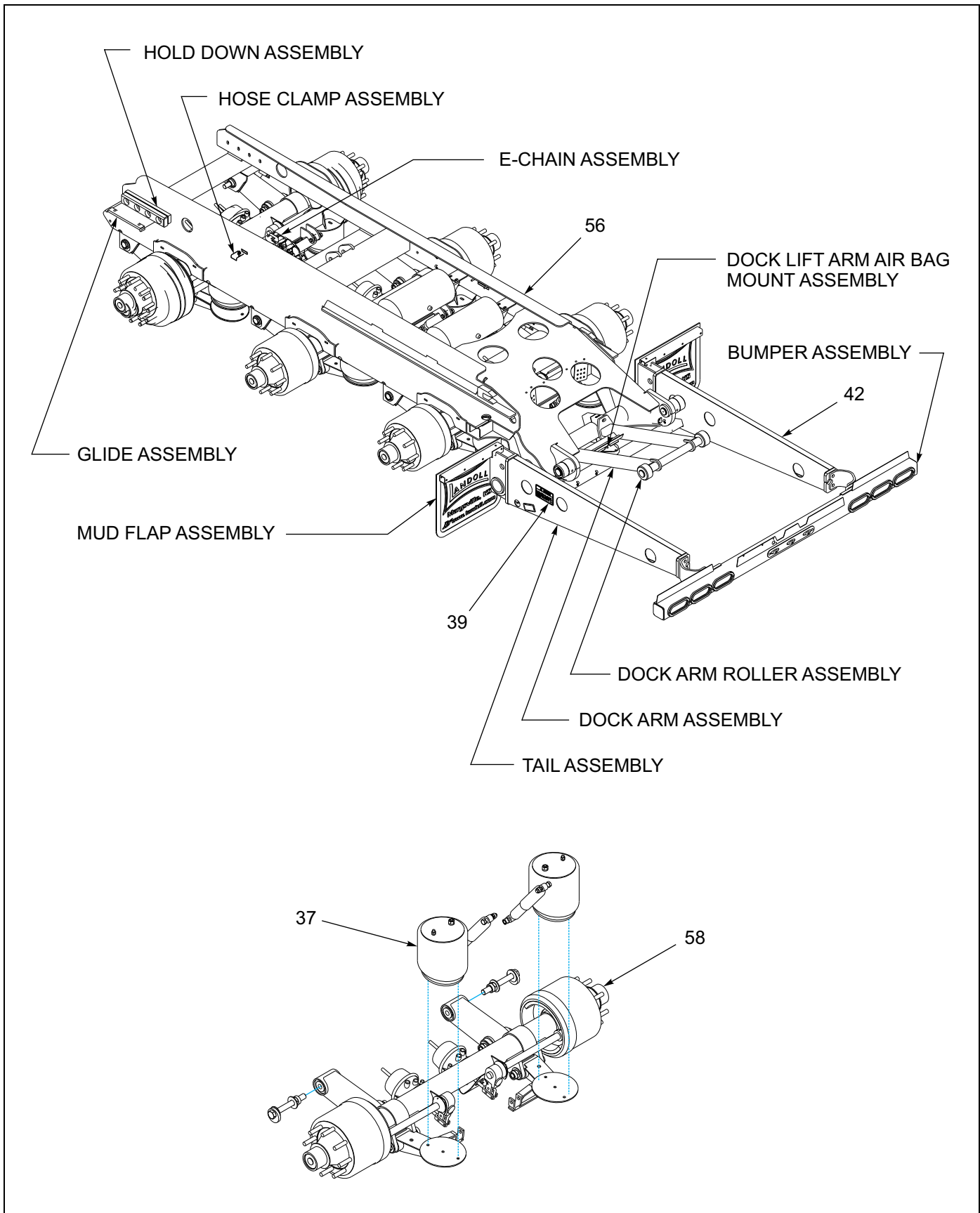
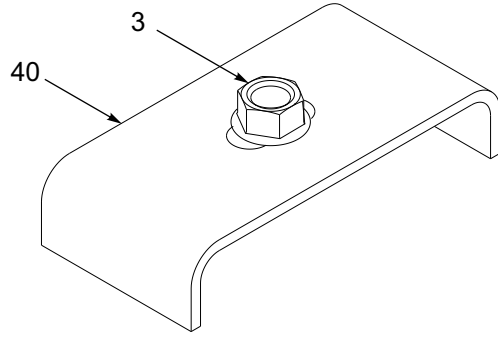
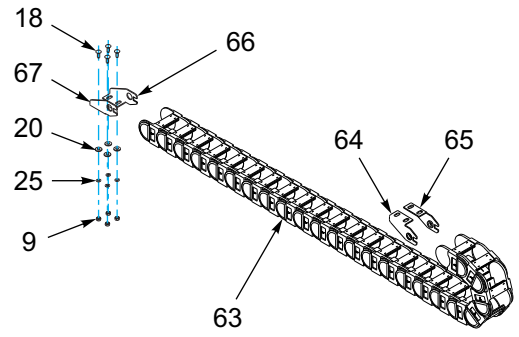


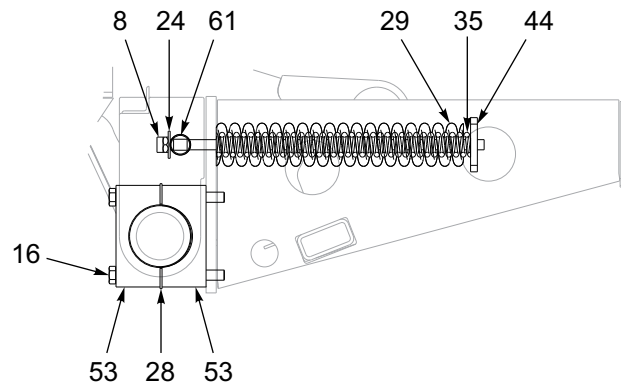
Figure 1-30: General Items - 950D (1 of 3)



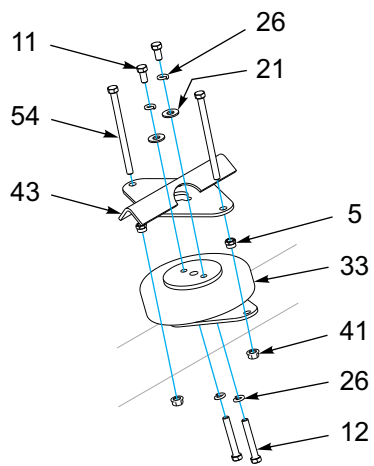
CLAMP ASSEMBLY



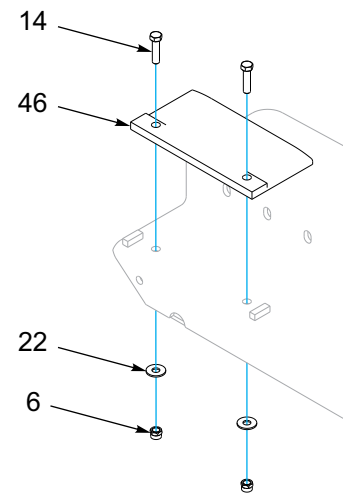
E-CHAIN ASSEMBLY



TAIL ASSEMBLY

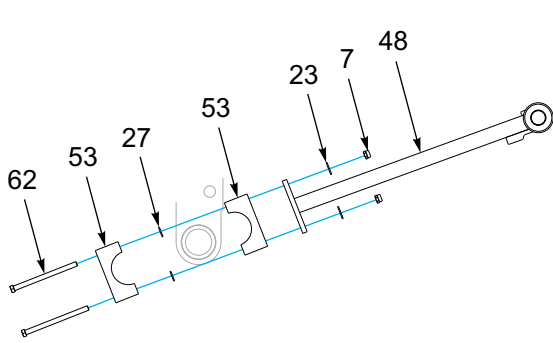


**DOCK LIFT ARM
AIR BAG MOUNT ASSEMBLY**

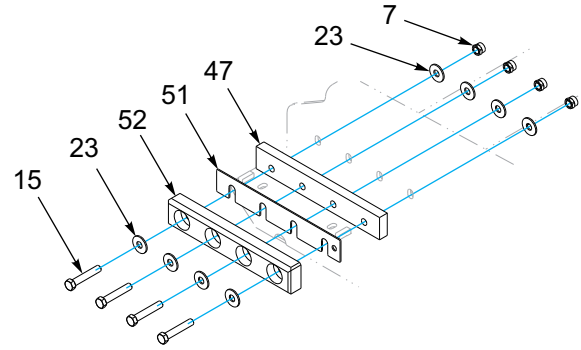


GLIDE ASSEMBLY

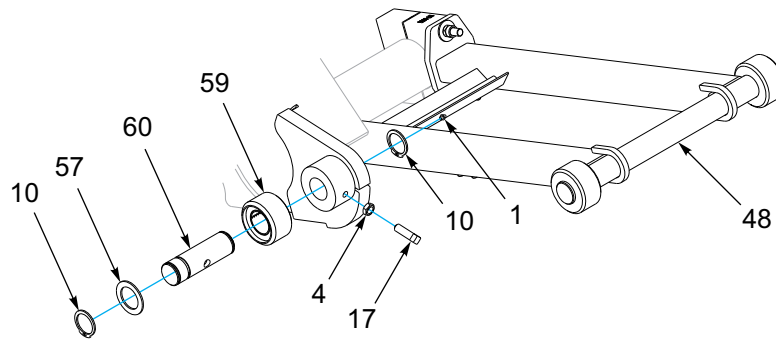
Figure 1-31: General Items - 950D (2 of 3)



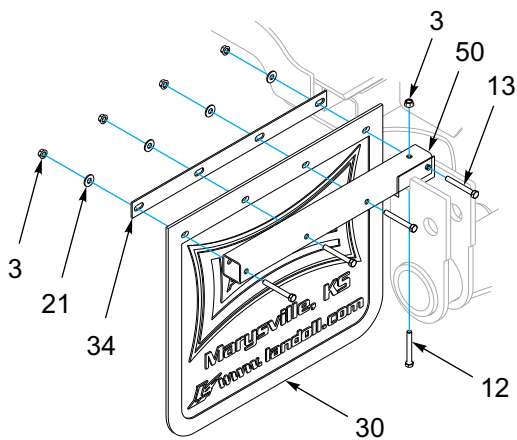
DOCK ARM ASSEMBLY



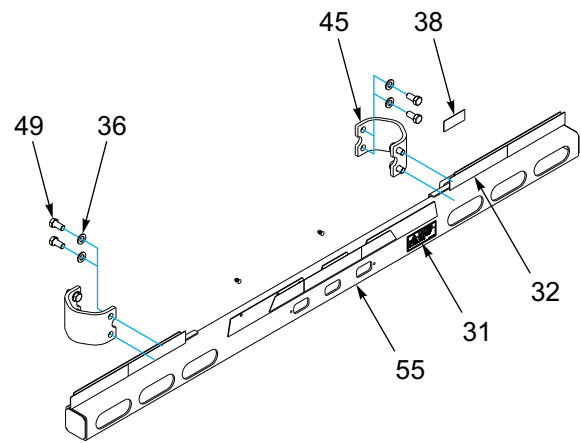
HOLD DOWN ASSEMBLY



DOCK ARM ROLLER ASSEMBLY



MUD FLAP ASSEMBLY



BUMPER ASSEMBLY

Figure 1-32: General Items - 950D (3 of 3)

General Items - 950D

ITEM	PART NUMBER	DESCRIPTION	QTY.			
	196403	SUSP ASSY 950-12 2512-77	*			
	196407	SUSP ASSY 950-14 2512-77	*			
	196411	SUSP ASSY 950-15 2512-77	*			
	196404	SUSP ASSY 950-12 2512-77 TIS		*		
	196408	SUSP ASSY 950-14 2512-77 TIS		*		
	196412	SUSP ASSY 950-15 2512-77 TIS		*		
	196405	SUSP ASSY 950-12 2516-75			*	
	196409	SUSP ASSY 950-14 2516-75			*	
	196413	SUSP ASSY 950-15 2516-75			*	
	196406	SUSP ASSY 950-12 2516-75 TIS				*
	196410	SUSP ASSY 950-14 2516-75 TIS				*
	196414	SUSP ASSY 950-15 2516-75 TIS				*
1	1-298-010001-1	ZERK FITTING 1/4 SAE	2	2	2	2
2	1-394-010001	HOSE ABRASION SLEEVE X2 (NOT SHOWN)	2	2	2	2
3	1-510-010001	NUT, 3/8-16 FLANGE LOCK	15	15	15	15
4	1-511-010001-07	NUT, HEX JAM 5/8-11	2	2	2	2
5	1-512-010005-05	NUT, HEX, SLFLKG GRB 3/8-16	2	2	2	2
6	1-512-010005-09	NUT, HEX, SLFLKG, 1/2-13 GRB	4	4	4	4
7	1-512-010005-13	NUT, HEX, SLFLKG GRB 5/8-11	4	4	4	4
8	1-512-010005-15	NUT, HEX, SLFLKG GRB 3/4-10	2	2	2	2
9	1-512-010007-05	NUT, HEX 1/4-20	4	4	4	4
10	1-630-010021-02	RING, RETAINING 2 HD	4	4	4	4
11	1-654-010051-03	SCREW, HEX CAP, 3/8-16 UNC X 3/4 G5	2	2	2	2
12	1-654-010051-11	SCREW HX CP 3/8-16 X 2-1/2 G5 ZP	2	2	2	2
13	1-654-010051-13	SCREW, HX CP, 3/8-16 UNC X 3, GR5	10	10	10	10
14	1-654-010055-05	SCREW, HEX CAP, 1/2-13 UNC X 2 GR5	4	4	4	4
15	1-654-010059-11	SCREW, HX CP 5/8-11 UNC X 3.5 GR5	REF	REF	REF	REF
16	1-654-010061-21	SCREW, HX CP, 3/4-10 UNC X 8	4	4	4	4
17	1-654-010150-05	SCREW, SET, 5/8 X 2 SQ HD CP PNT	2	2	2	2
18	1-654-010158-1	SCREW, RHD, SQ NCK, 1/4-20 UNC	6	6	6	6
19	1-843-010014	VALVE EXTENSION, STEM (NOT SHOWN)	6	--	6	--
20	1-861-010032-07	WASHER, FLAT 1/4 ZP	4	4	4	4
21	1-861-010032-11	WASHER, FLAT 3/8 W ZP/CD	10	10	10	10
22	1-861-010032-15	WASHER, FLAT 1/2 W ZP/CD	4	4	4	4
23	1-861-010032-19	WASHER, FLAT 5/8 W ZP/CD	4	4	4	4
24	1-861-010032-21	WASHER, FLAT 3/4 W ZP/CD	2	2	2	2
25	1-861-010034-09	WASHER, LKG HLCL SPR, 1/4	4	4	4	4
26	1-861-010034-11	WASHER, LKG HLCL SPR, 3/8	4	4	4	4
27	2-684-010001	SHIM ROCK SHAFT BEARING	4	4	4	4
28	2-684-010045	SHIM, ROCK SHAFT BEARING 3/4"	4	4	4	4
29	2-720-010008	SPRING-SPRING CLAMP	2	2	2	2
30	3-485-010001	FLAP, MUD 21 IN	2	2	2	2
31	3-573-010031	DECAL TRAILER BUMPER (SEE PAGE 1-3)	1	1	1	1
32	3-573-010377	DECAL, 2" REFLEXITE TAPE, RD/WHT (SEE PAGE 1-3)	84	84	84	84
33	3-720-010042	SPRING AIR 6-1/2	1	1	1	1
34	3-762-010017	CLAMP MUD FLAP	2	2	2	2

General Items - 950D

ITEM	PART NUMBER	DESCRIPTION	QTY.			
35	8-720-010013	SPRING COMPRESSION REEL (USED ON 14' & 15' TAIL TRAILERS)	2	2	2	2
36	622-3511-008	WASHER, FLAT 3/4 MIL-CARB SAE	8	8	8	8
37	102363	SUSPENSION,ADJ RLU-228-3.5 (SEE PAGE 1-62)	3	3	--	--
	102364	SUSPENSION,ADJ RLU-228-5.5 (SEE PAGE 1-62)	--	--	3	3
38	103055	PLACARD, ENERGY BUMPER CERT	1	1	1	1
39	103056	DECAL, ENRGY BUMPR WARNING (SEE PAGE 1-3)	1	1	1	1
40	103817	CLAMP,HOSE 660 U/C	5	5	5	5
41	107470	NUT, SPIRALOCK 3/8-16HX	2	2	2	2
42	107582	BUMPER ARM WLDMT 12' TAIL (USED W/ 196403, 196404, 196405, & 196406)	1	1	1	1
	110649	BUMPER ARM WLDMT 14' TAIL (USED W/ 196407, 196408, 196409, & 196410)	1	1	1	1
	109120	BUMPER ARM WLDMT 15' TAIL (USED W/ 196411, 196412, 196413, & 196414)	1	1	1	1
43	107588	PLATE WLDMT LIFT GUIDG	1	1	1	1
44	107591	ROD WLDMT SPG TENS BMPR	2	2	2	2
45	107594	MOUNT BUMPER ENERGY PAK	2	2	2	2
46	107621	GLIDE U/C 930	2	2	2	2
47	107622	BLOCK MTG NYLNL HOLDDOWN	REF	REF	REF	REF
48	107732	DOCK WLDMT, LIFT ARM	1	1	1	1
49	108705	SCREW,HEXCAP,3/4-10X1-1/2 GR8	8	8	8	8
50	108746	BRACKET, MUD FLAP 930	2	2	2	2
51	108749	SHIM,NYLATRON BLOCK 930	REF	REF	REF	REF
52	109138	NYLATRON HOLD-DOWN BLK	REF	REF	REF	REF
53	109158	BEARING CAST BUMPER PVT	8	8	8	8
54	109207	SCREW 3/8-16X6 HHCS FULLTHRD	2	2	2	2
55	109524	BUMPER WLDMT 930 L TAIL	1	1	1	1
56	117844	UNDERCARRIAGE WELDMENT 930	1	1	1	1
57	114562	BUSHING MACHINE HARD 3X2X10GA	2	2	2	2
58	115747	AXLE WLDMT 2512 SPG 77 39.5 (SEE PAGE 1-64)	3	--	--	--
	136258	AXLE WLDMT 2512 SPG 77 39.5 TIS (SEE PAGE 1-64)	--	3	--	--
	115749	AXLE WLDMT 2516 SPG 75 39.5 (SEE PAGE 1-66)	--	--	3	--
	139622	AXLE WLDMT 2516 SPG 75 39.5 TIS (SEE PAGE 1-66)	--	--	--	3
59	135613	ROLLER 4 IN. ASSY CONNEX	2	2	2	2
60	135615	PIN ROLLERS REAR 930 U/C	2	2	2	2
61	142457	PIN SPRING 930 BUMPER	2	2	2	2
62	171892	SCREW, HEX CAP 5/8-11UNCX9 GR5	4	4	4	4
63	189319	SUPPORT, E-CHAIN,18 LINKS,3838	1	1	1	1
64	190701	BRACKET WLDMT E-CHAIN LH	1	1	1	1
65	190706	BRACKET WLDMT E-CHAIN RH	1	1	1	1
66	190700ZP	ZINC PLATE BRACKET E-CHAIN LH	1	1	1	1
67	190705ZP	ZINC PLATE BRACKET E-CHAIN RH	1	1	1	1

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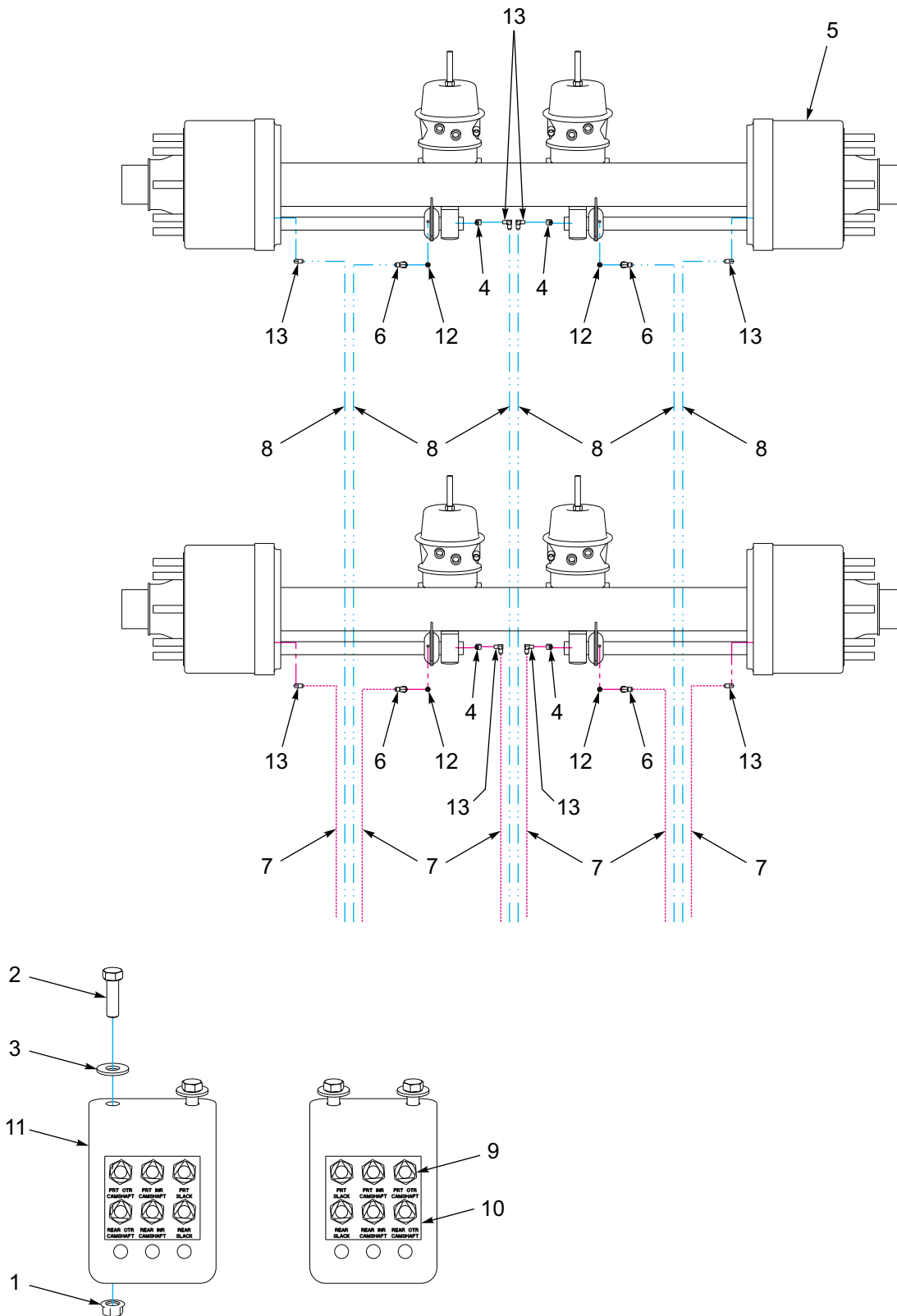


Figure 1-33: Grease System - 930D

Grease System - 930D

ITEM	PART NUMBER	DESCRIPTION	QTY.
	196390	SUSP ASSY 930-12 2512-77	
	196398	SUSP ASSY 930-15 2512-77	
1	1-510-010001	NUT, 3/8-16 FLANGE LOCK	4
2	1-654-010051-06	SCREW,HEX CAP 3/8-16UNCX1-1/4	4
3	1-861-010032-11	WASHER, FLAT 3/8 W ZP/CD	4
4	101528	ELBOW,BRASS PIPE STREET	4
5	115747	AXLE WLDMT 2512 SPG 7739.5	REF
6	138155	ADAPTER 90 #4 JIC	4
7	142441	HOSE ASSY,GREASE 1/4X45	6
8	142445	HOSE ASSY,GREASE 1/4X102	6
9	142545	NUT 7/16 FOR BULKHEAD	12
10	142553	DECAL, GREASE TRL U/C (SEE PAGE 1-3)	2
11	143649	BRACKET BULKHEAD GREASE LINE	2
12	161797	ADAPTER STR 5-16-18 #4JIC	4
13	2024-2-4S	ADAPTER, ELBOW	8

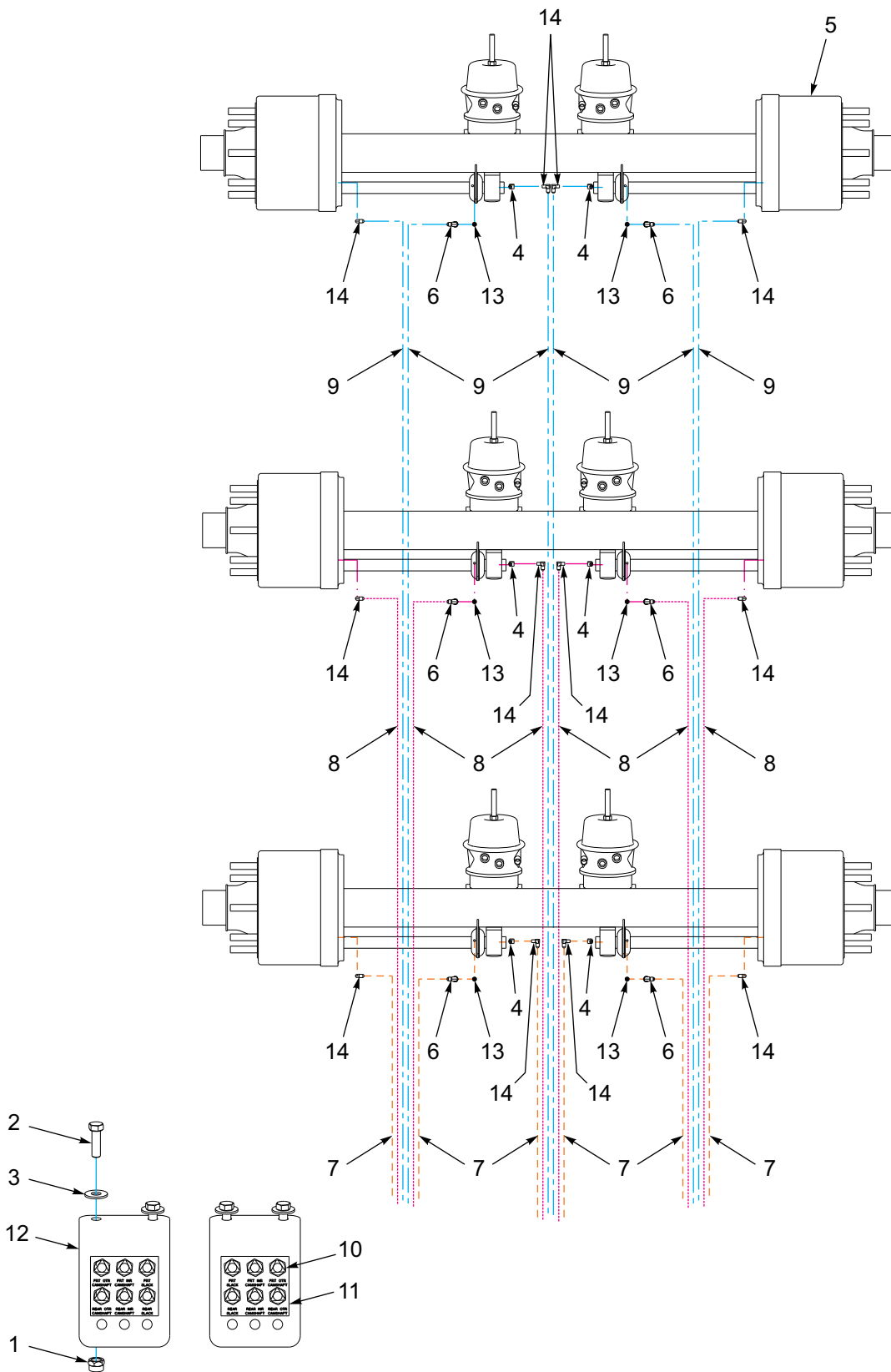


Figure 1-34: Grease System - 950D

Grease System - 950D

ITEM	PART NUMBER	DESCRIPTION	QTY.
	196403	SUSP ASSY 950-12 2512-77	
1	1-512-010005-05	NUT, 3/8-16 FLANGE LOCK	4
2	1-654-010051-06	SCREW,HEX CAP 3/8-16UNCX1-1/4	4
3	1-861-010032-11	WASHER, FLAT 3/8 W ZP/CD	4
4	101528	ELBOW,BRASS PIPE STREET	4
5	115747	AXLE WLDMT 2512 SPG 7739.5	REF
6	138155	ADAPTER 90 #4 JIC	6
7	142441	HOSE ASSY,GREASE 1/4X45	6
8	142445	HOSE ASSY,GREASE 1/4X102	6
9	142452	HOSE ASSY,GREASE 1/4X162	6
10	142545	NUT 7/16 FOR BULKHEAD	18
11	142553	DECAL, GREASE TRL U/C (SEE PAGE 1-3)	2
12	143649	BRACKET BULKHEAD GREASE LINE	2
13	161797	ADAPTER STR 5-16-18 #4JIC	6
14	2024-2-4S	ADAPTER, ELBOW	12

Suspensions

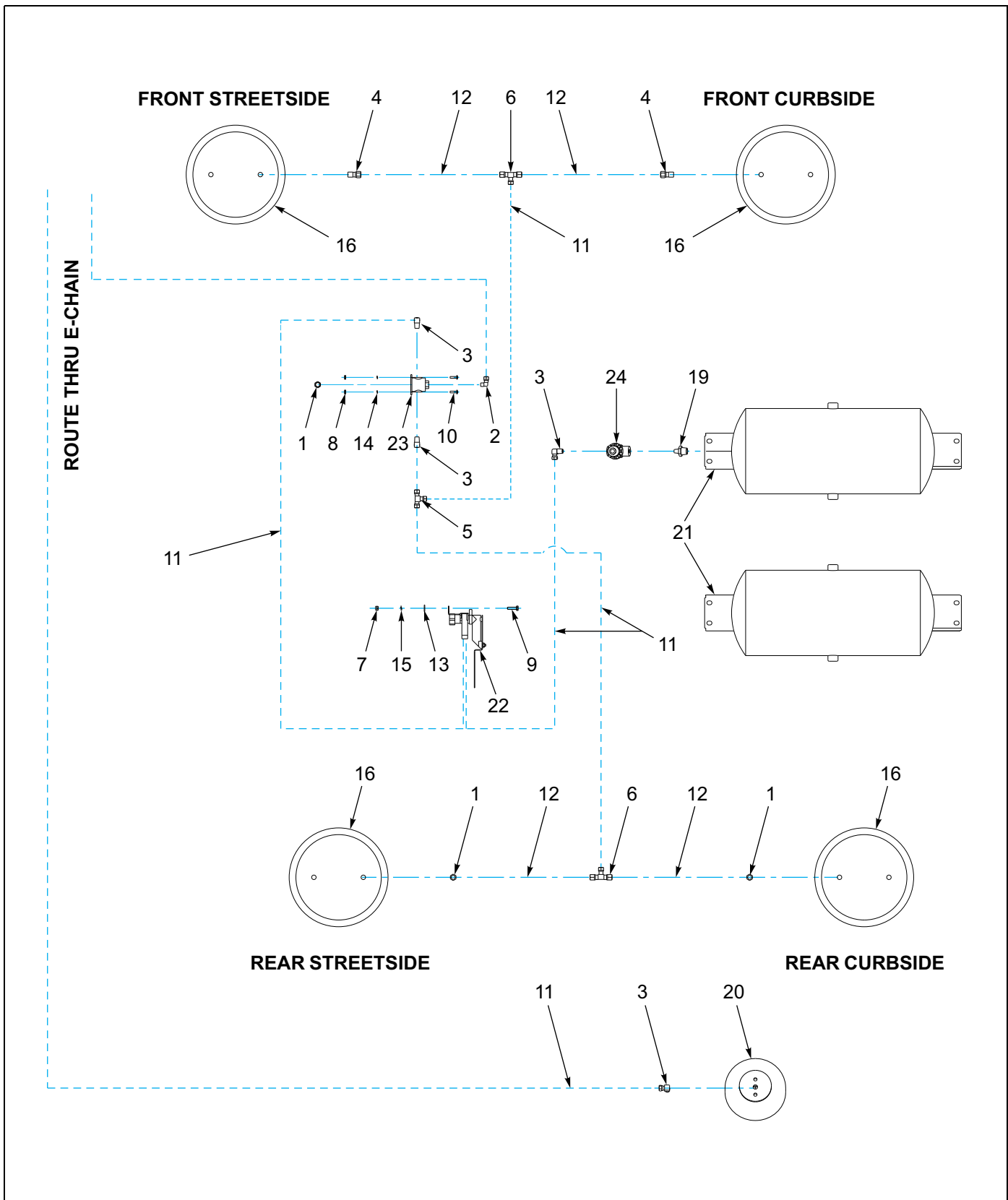
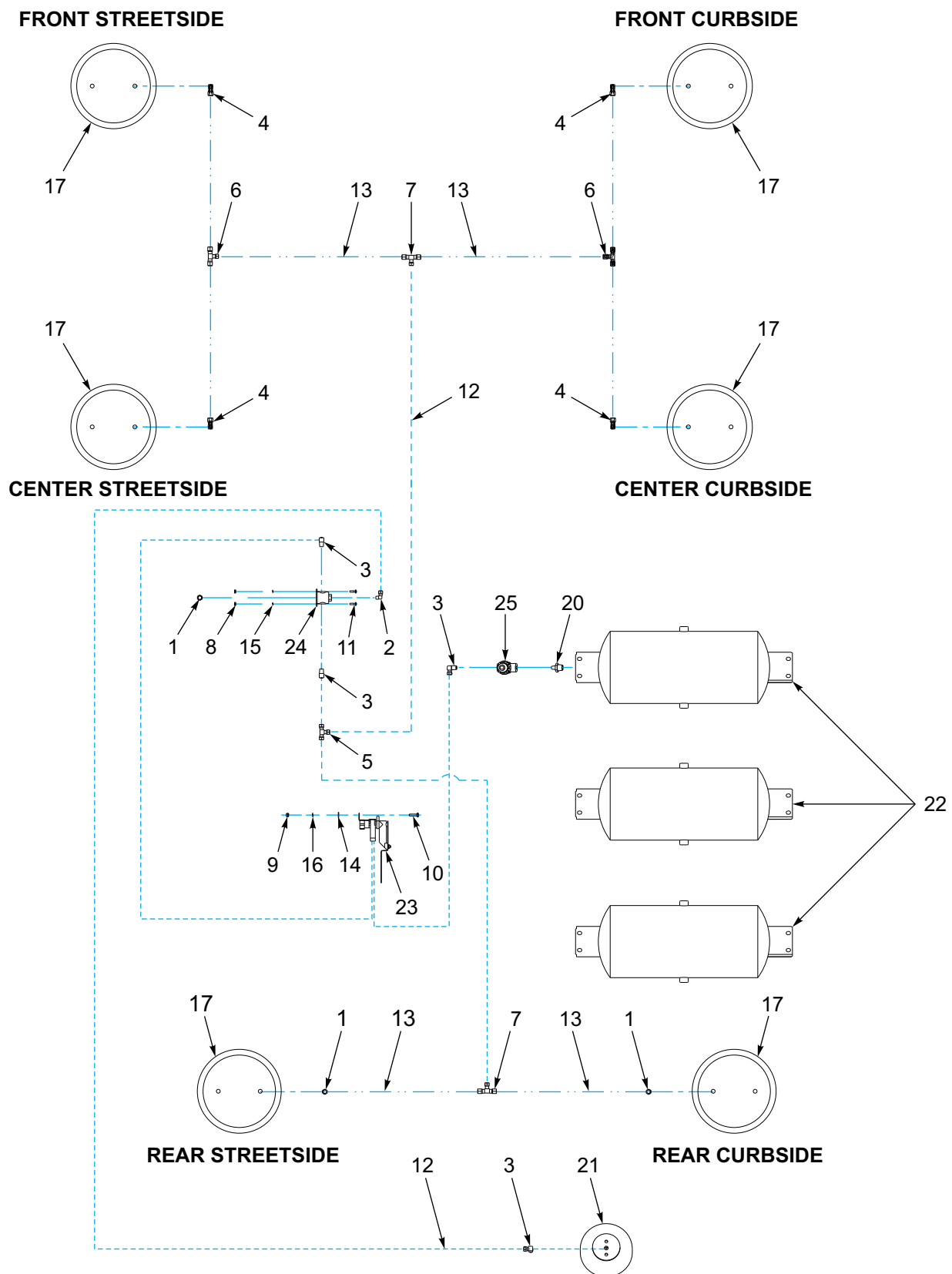


Figure 1-35: Air Ride Suspension - 930D

Air Ride Suspension - 930D

ITEM	PART NUMBER	DESCRIPTION	QTY.
	196390	SUSP ASSY 930-12 2512-77	
	196398	SUSP ASSY 930-15 2512-77	
1	1-297-010007-11	FITTING,AIR,3/8TUBE TO 1/4NPT	3
2	1-297-010008-05	FITTING,AIR 90 1/4TUBEX1/8NPT	1
3	1-297-010008-07	FITTING AIR 90 1/4TUBEX1/4NPT	4
4	1-297-010008-18	FITTING,AIR 90 3/8TUBEX1/4NPT	2
5	1-297-010010-01	FITTING,AIR,UNION TEE 1/4	1
6	1-297-010010-04	FITTING,AIR,UN/TEE3/8X3/8X1/4	2
7	1-512-010005-01	NUT,HEX,SLFLKG GRB 1/4-20	2
8	1-512-010007-03	NUT, HEX 10-24	4
9	1-654-010047-06	SCREW,HX CP 1/4-20UNCX1 GR5	2
10	1-656-010003051	SCREW,RH HD MACH 10-24X3/4	4
11	1-833-010001	TUBING NYLON 1/4 OD	65
12	1-833-010002	TUBING NYLON 3/8 OD	6
13	1-861-010032-07	WASHER,FLAT 1/4 ZP	2
14	1-861-010034-07	WASHER,LKG,HLCL SPR, NO 10	4
15	1-861-010034-09	WASHER, LKG HLCL SPR, 1/4	2
16	102363	SUSPENSION,ADJ RLU-228-3.5 (SEE PAGE 1-63)	REF
17	102732	AIR CONTROL KIT (ITEMS 22 & 24) (SEE PAGE 1-60)	1
18	109177	CONTROL KIT AIR SUSP LOWER (ITEM 23) (SEE PAGE 1-61)	1
19	2083-8-4S	NIPPLE HEX 1/2PIPE - 1/4PIPE	1
20	3-720-010042	SPRING AIR 6-1/2	REF
21	3-780-010002	TANK AIR 9.5X22.5 .5NPT PORTS	REF
22	900 54 007	HEIGHT CONTROL VALVE N	REF
23	900-54-079	PILOT VALVE	REF
24	905-54-107	BRAKE PROTECTION VALVE	REF



Air Ride Suspension - 950D

ITEM	PART NUMBER	DESCRIPTION	QTY.
	196403	SUSP ASSY 950-12 2512-77	
1	1-297-010007-11	FITTING,AIR,3/8TUBE TO 1/4NPT	3
2	1-297-010008-05	FITTING,AIR 90 1/4TUBEX1/8NPT	1
3	1-297-010008-07	FITTING AIR 90 1/4TUBEX1/4NPT	4
4	1-297-010008-18	FITTING,AIR 90 3/8TUBEX1/4NPT	4
5	1-297-010010-01	FITTING,AIR,UNION TEE 1/4	1
6	1-297-010010-03	FITTING,AIR, UNION TEE 3/8	2
7	1-297-010010-04	FITTING,AIR,UN/TEE3/8X3/8X1/4	2
8	1-512-010007-03	NUT, HEX 10-24	4
9	1-512-010007-05	NUT, HEX 1/4-20	2
10	1-654-010047-06	SCREW,HX CP 1/4-20UNCX1 GR5	2
11	1-656-010003051	SCREW,RH HD MACH 10-24X3/4	4
12	1-833-010001	TUBING NYLON 1/4 OD	5
13	1-833-010002	TUBING NYLON 3/8 OD	68
14	1-861-010032-07	WASHER,FLAT 1/4 ZP	2
15	1-861-010034-07	WASHER,LKG,HLCL SPR, NO 10	4
16	1-861-010034-09	WASHER, LKG HLCL SPR, 1/4	2
17	102363	SUSPENSION,ADJ RLU-228-3.5 (SEE PAGE 1-63)	3
18	102732	AIR CONTROL KIT (ITEMS 23 & 24) (SEE PAGE 1-60)	1
19	109177	CONTROL KIT AIR SUSP LOWER (ITEM 25) (SEE PAGE 1-61)	1
20	2083-8-4S	NIPPLE HEX 1/2PIPE - 1/4PIPE	1
21	3-720-010042	SPRING AIR 6-1/2	REF
22	3-780-010002	TANK AIR 9.5X22.5 .5NPT PORTS	REF
23	900 54 007	HEIGHT CONTROL VALVE	REF
24	900-54-079	PILOT VALVE	REF
25	905-54-107	BRAKE PROTECTION VALVE	REF

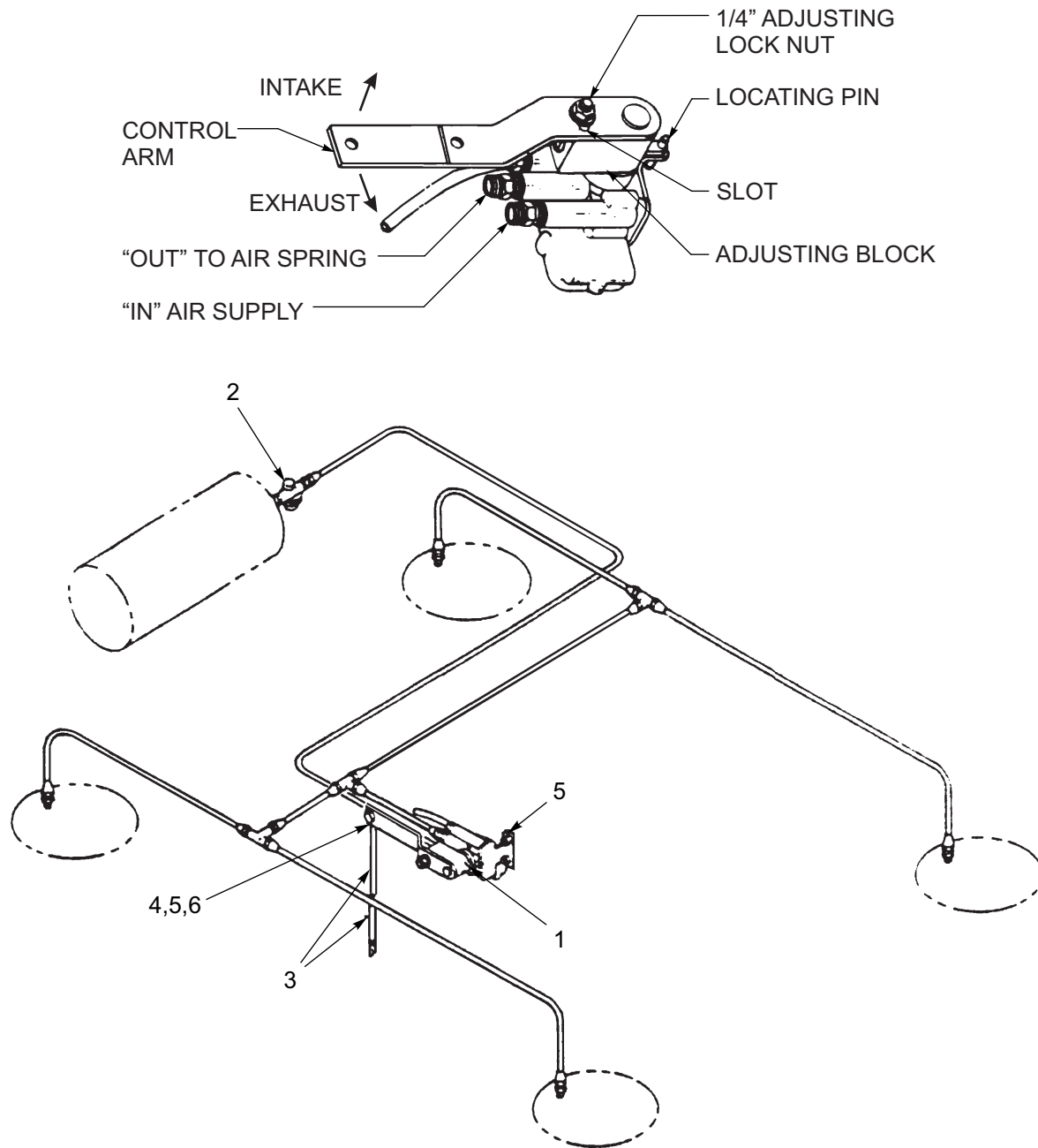


Figure 1-37: Air Control Kit - Neway

Air Control Kit - Neway

ITEM	PART NUMBER	DESCRIPTION	QTY.
	102732	AIR CONTROL KIT NEWAY	
1	900 54 007	HEIGHT CONTROL VALVE	1
2	905-54-107	AIR PRESSURE PROTECTION VALVE & FILTER	1
3	111021	SRK - 167 KIT - ADJ. LINK ASSEMBLY	1
4	1-654-010047-04	SCREW, HEX HEAD CAP 1/4-20 X 3/4 GR5	2
5	1-512-010005-01	LOCK NUT 1/4-20	2
6	-----	DECAL - OPERATING	1

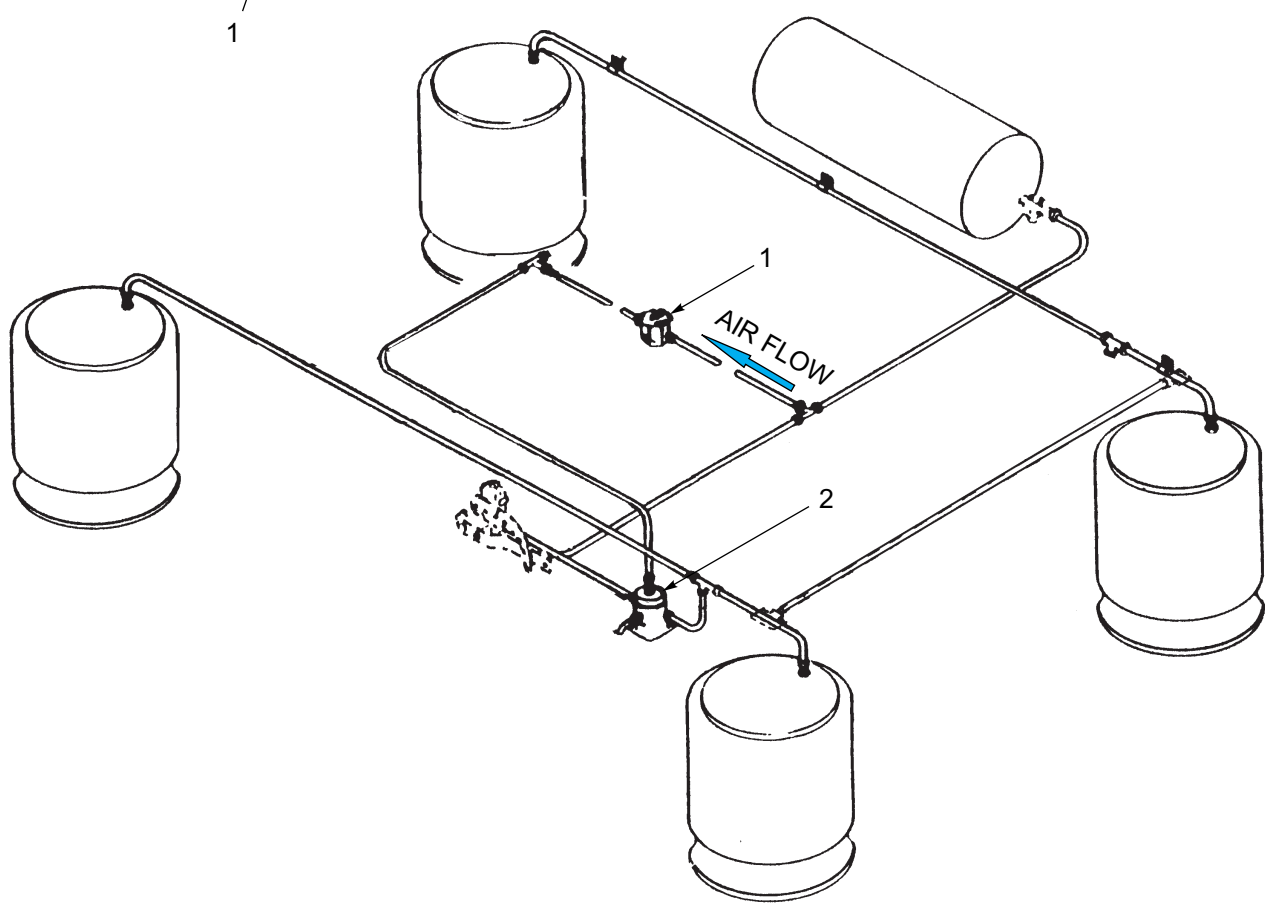
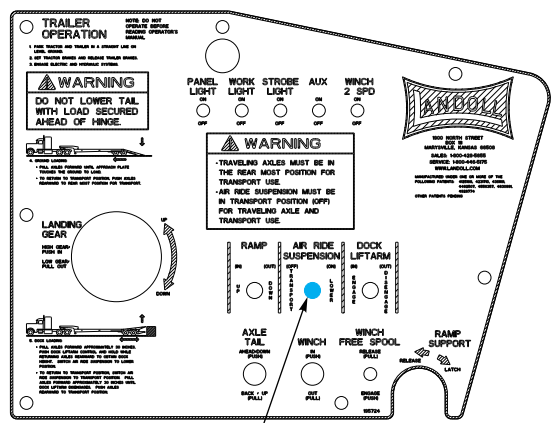


Figure 1-38: Air Control Kit - Lower Suspension

Air Control Kit - Lower Suspension

ITEM	PART NUMBER	DESCRIPTION	QTY.
	109177	AIR CONTROL KIT - LOWER SUSPENSION	
1	900-54-088	VALVE MANUALLY OPERATED	1
2	900-54-079	PILOT VALVE (LOCATED ON UNDERCARRIAGE)	1
3	----	DECAL (NOT SHOWN)	1

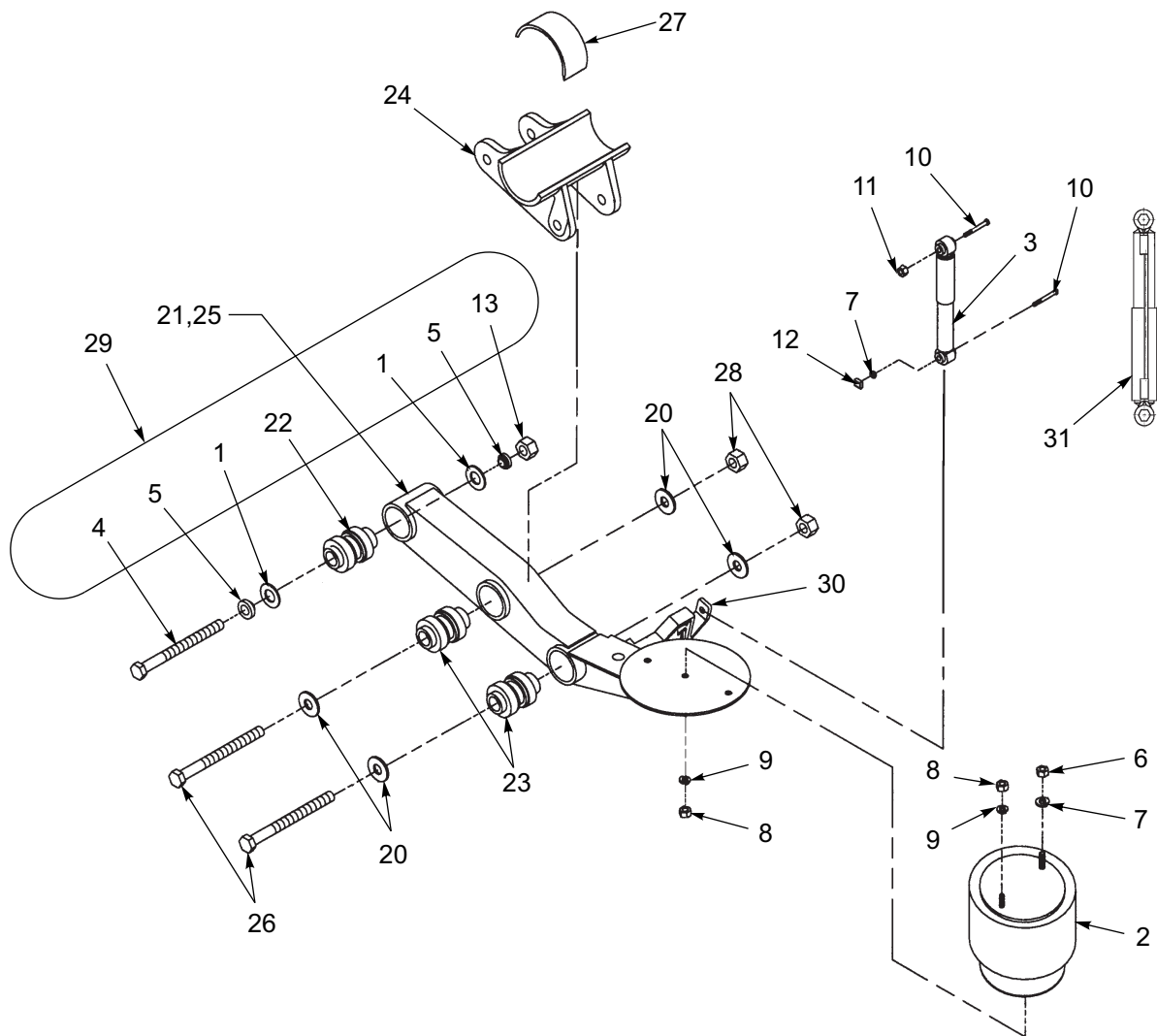


Figure 1-39: Suspension Hanger - RLU-228

Suspension Hanger - RLU-228

ITEM	PART NUMBER	REFERENCE	DESCRIPTION	QTY.
	102363	-----	SUSPENSION, ADJ. RLU-228-3.5, 12-1/4 X 7-1/2 (ITEMS 1-19)	
	102364	-----	SUSPENSION, ADJ. RLU-228-5.5, 16-1/2 X 7 (ITEMS 1-19)	
	102361	-----	SUSPENSION, BEAM. RLU-228 (ITEMS 20-28)	
1	111010	900 36 177	FLAT WASHER	2
2	905-57-129	905 57 129	AIR SPRING ASSEMBLY (USED W/ 102363)	2
	111016	905 57 159	AIR SPRING ASSEMBLY (USED W/ 102364)	2
3	900 45 040	900 45 040	SHOCK - 102363	2
	111017	900 44 642	SHOCK - 102364	2
4	90508009	905 08 009	ALIGN BUSH ASSEMBLY	2
5	129006	900 08 238	ALIGN BLOCK	2
6	934 00 149	934 00 149	3/4-16 HEX NUT GRB	2
7	936 00 077	936 00 077	LOCK WASHER, 3/4"	4
8	1-512-010007-09	934 00 136	HEX NUT, 1/2-13	4
9	1-861-010034-13	936 00 072	LOCK WASHER, 1/2"	4
10	105408	930 03 597	HEX HEAD CAP SCREW 3/4-10 X 3-1/2	4
11	934-00-492	934 00 492	LOCK NUT, 3/4-10	2
12	111022	934 00 367	3/4-10 SQUARE NUT	2
13	111008	934 00 506	LOCK NUT 1-1/8-7	2
14	111018	900 54 038	ANCHOR, RIDE HEIGHT CONTROL VALVE (NOT SHOWN)	1
15	-----	941 00 787	LITERATURE INSTRUCTIONS (NOT SHOWN)	1
16	-----	941 00 685	LITERATURE SPEC (NOT SHOWN)	1
17	-----	941 00 648	LITERATURE FORM 864 (NOT SHOWN)	1
18	-----	941 00 590	LITERATURE LABEL (NOT SHOWN)	1
19	-----	941 00 790	LITERATURE LABEL (NOT SHOWN)	1
19A	111019	110 05 053	FASTENER KIT (ITEMS 1, 4-11, 13 & 15)	1
20	111010	900 36 177	FLAT WASHER	8
21	111013	905 16 600	EQUALIZING BEAM ASSEMBLY LH	1
22	900-08-139	900 08 139	RUBBER BUSHING - FRONT PIVOT	2
23	111011	900 08 149	RUBBER BUSHING - AXLE CONNECTION	4
24	111012	900 01 200	AXLE ADAPTER ASSEMBLY	2
25	111014	905 16 601	EQUALIZING BEAM ASSEMBLY RH	1
26	111023	932 01 051	HEX HEAD CAP SCREW 1-1/8-7 X 8-1/2	4
27	111015	900 25 288	SAFETY STRAP	2
28	934-00-506	934 00 506	LOCK NUT 1-1/8-7	4
29	109533	481 00 294	ALIGNMENT BLOCK KIT	1
30	126900	905 20 543	BRACKET BOTTOM SHOCK - RLU-228	1
31	141708	905 47 808	WIRE ROPE STRAP KIT RLU 228-3.5 (USED W/ 102363)	1
	127708	905 47 175	WIRE ROPE STRAP KIT RLU 228-5.5 (USED W/ 102364)	1

NOTE: QUANTITIES LISTED ARE PER AXLE

Axle and Brakes

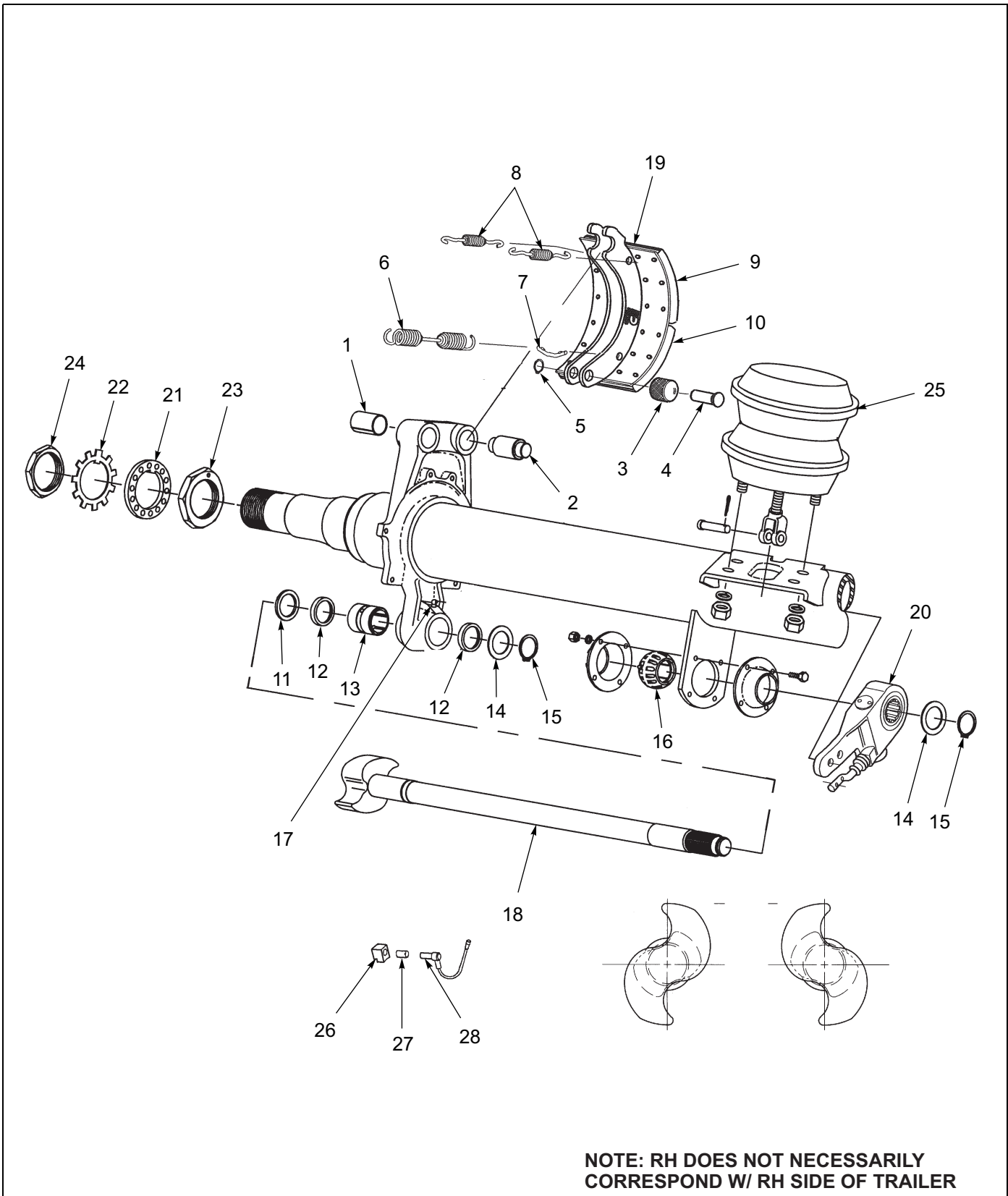


Figure 1-40: Axle and Brake Assembly - Dexter 12-1/4" X 7-1/2"

Axle and Brake Assembly - Dexter 12-1/4" X 7-1/2"

ITEM	PART NUMBER	REFERENCE	DESCRIPTION	QTY.
	115704	-----	AXLE 77, 12.25 X 7.5 SPG BRK - 25K	
	136203	-----	AXLE 77, 12.25 X 7.5 SPG BRK - 25K TIS	
	K71-460-00	K71-460-00	BRAKE SHOE HARDWARE KIT (ITEMS 1-8)	
	-----	K71-133-00	BRAKE BLOCK KIT (ITEMS 9 & 10)	
	K71-101-00	K71-101-00	CAMSHAFT REPAIR KIT (ITEMS 11-17)	
1	-----	014-068-00	BUSHING, SPIDER ANCHOR PIN	4
2	-----	056-017-00	ANCHOR PIN	4
3	-----	014-057-00	ROLLER	4
4	-----	056-010-00	RETAINER, ROLLER PIN	8
5	-----	069-018-00	RETAINER, RING	8
6	-----	046-092-00	SPRING, SHOE RETRACTOR	2
7	056-018-00	056-018-00	RETAINER PIN, RETRACTOR SPRING	4
8	046-097-00	046-097-00	SPRING, KEEPER	4
9	-----	041-057-01	LINING, BRAKE BLOCK ANCHOR	2
10	-----	041-060-01	LINING, BRAKE BLOCK CAM	2
11	005-074-00	005-074-00	D" WASHER, CAMSHAFT	2
12	010-052-00	010-052-00	SEAL, GREASE	4
13	-----	014-056-00	BUSHING, CAMSHAFT SPIDER	2
14	-----	005-134-00	WASHER, CAMSHAFT END	2
15	069-078-00	069-078-00	RETAINER, CAMSHAFT END	2
16	-----	014-058-00	BUSHING, CAMSHAFT SUPPORT	2
17	-----	061-006-00	FITTING, GREASE 45°	2
18	136991	034-188-05	CAMSHAFT, 23-3/8" LH	1
	136992	034-189-05	CAMSHAFT, 23-3/8" RH	1
19	040-320-01	040-320-01	SHOE AND LINING ASSEMBLY	4
20	156655	055-040-99	SLACK ADJUSTER, AUTOMATIC	2
21	005-098-00	005-098-00	WASHER, SPINDLE LOCK	2
22	005-099-00	005-099-00	WASHER, TABBED SPINDLE LOCK	2
23	006-114-00	006-114-00	NUT, INNER SPINDLE	2
24	006-115-00	006-115-00	NUT, OUTER SPINDLE	2
25	034-058-07	034-058-07	AIR CHAMBER, SPRING BRAKE	2
26	103805	024-100-00	SENSOR BLOCK	2
27	144979	097-002-00	RETAINER CLIP	2
28	139287	094-007-00	ABS SENSOR, 90	2

NOTE: WHEN ORDERING THE BEAM W/ SPINDLE, SPIDER, AND BRACKETS ATTACHED, YOU WILL NEED THE BEAM NUMBER, TRACK LENGTH, BRAKE SIZE, & CAMSHAFT LENGTH.

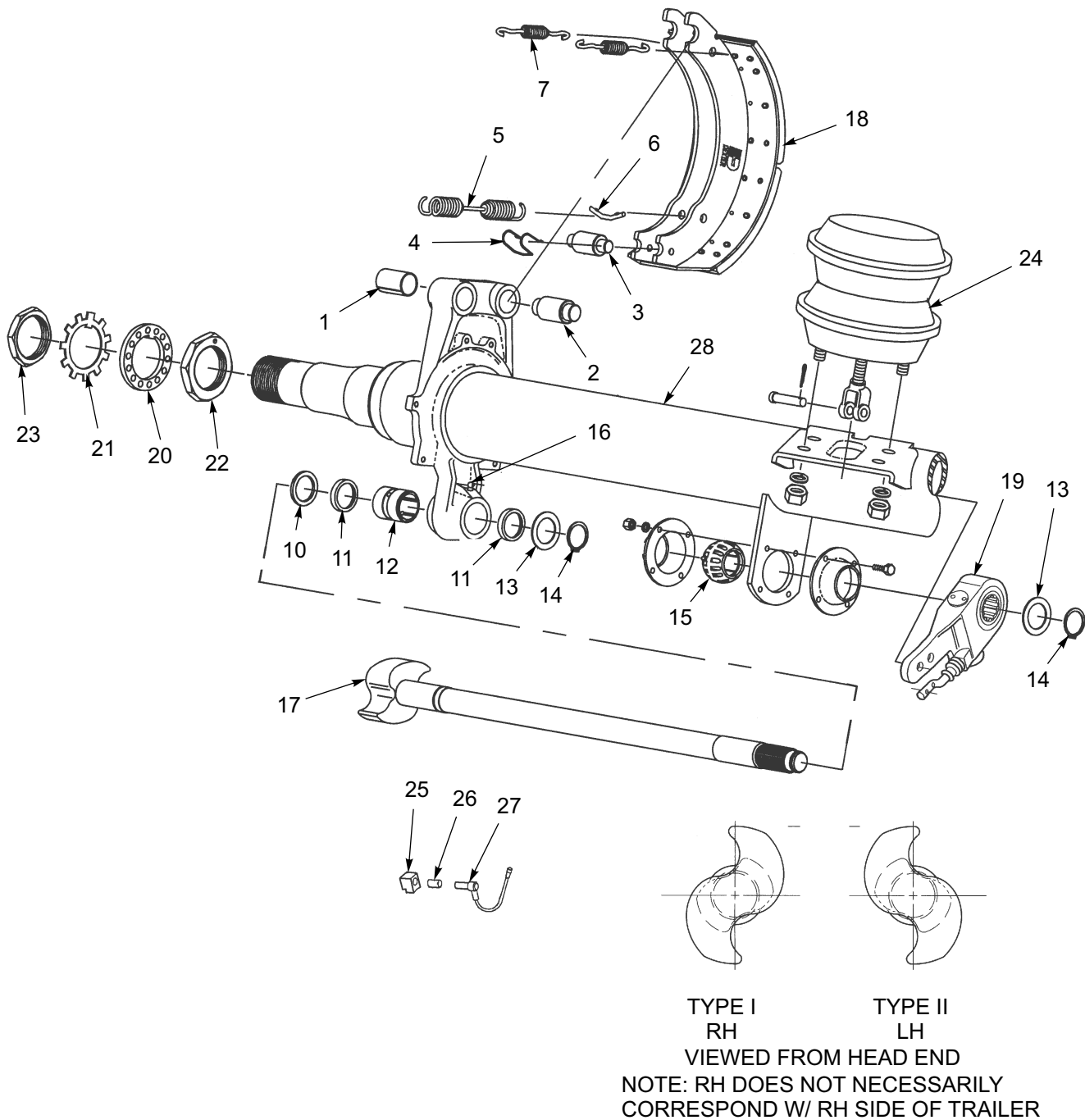


Figure 1-41: Axle and Brake Assembly - Dexter 16-1/2" X 7"

Axle and Brake Assembly - Dexter 16-1/2" X 7"

ITEM	PART NUMBER	REFERENCE	DESCRIPTION	QTY.
	115715		AXLE 75, 16.5 X 7 SPG BRK- 25K	
	138955		AXLE 75, 16.5 X 7 SPG BRK - 25K TIS	
	K71-136-00	K71-136-00	BRAKE SHOE HARDWARE KIT (ITEMS 1-7)	
	-----	K71-138-00	BRAKE BLOCK KIT (ITEMS 8 & 9)	
	K71-101-00	K71-135-00	CAMSHAFT REPAIR KIT (ITEMS 10-16)	
1	-----	014-068-00	BUSHING, SPIDER ANCHOR PIN	4
2	-----	056-017-00	ANCHOR PIN	4
3	014-065-00	014-065-00	ROLLER	4
4	071-122-00	071-122-00	RETAINER, ROLLER	4
5	046-096-00	046-096-00	SPRING, SHOE RETRACTOR	2
6	056-018-00	056-018-00	RETAINER PIN, RETRACTOR SPRING	4
7	046-097-00	046-097-00	SPRING, KEEPER	4
8	-----	041-058-01	LINING, BRAKE BLOCK CAM	2
9	-----	041-059-01	LINING, BRAKE BLOCK ANCHOR	4
10	005-096-00	005-096-00	D" WASHER, CAMSHAFT	2
11	010-052-00	010-052-00	SEAL, GREASE	4
12	-----	014-056-00	BUSHING, CAMSHAFT SPIDER	2
13	-----	005-134-00	WASHER, CAMSHAFT END	2
14	069-078-00	069-078-00	RETAINER, CAMSHAFT END	2
15	-----	014-058-00	BUSHING, CAMSHAFT SUPPORT	2
16	-----	061-006-00	FITTING, GREASE 45°	2
17	137461	034-192-08	CAMSHAFT, 25" LH	1
	137485	034-193-08	CAMSHAFT, 25" RH	1
18	040-180-00	040-180-00	SHOE AND LINING ASSEMBLY	4
19	139383	055-040-98	SLACK ADJUSTER, AUTOMATIC	2
20	005-098-00	005-098-00	WASHER, SPINDLE LOCK	2
21	005-099-00	005-099-00	WASHER, TABBED SPINDLE LOCK	2
22	006-114-00	006-114-00	NUT, INNER SPINDLE	2
23	006-115-00	006-115-00	NUT, OUTER SPINDLE	2
24	034-057-01	034-057-01	AIR CHAMBER, SERVICE BRAKE	2
25	103805	024-100-00	SENSOR BLOCK	2
26	144979	097-002-00	RETAINER CLIP	2
27	139287	094-007-00	ABS SENSOR, 90	2
28	-----	D-2H16	BEAM W/ BRACKETS	1

NOTE: WHEN ORDERING THE BEAM W/ SPINDLE, SPIDER, AND BRACKETS ATTACHED, YOU WILL NEED THE BEAM NUMBER, TRACK LENGTH, BRAKE SIZE, & CAMSHAFT LENGTH.

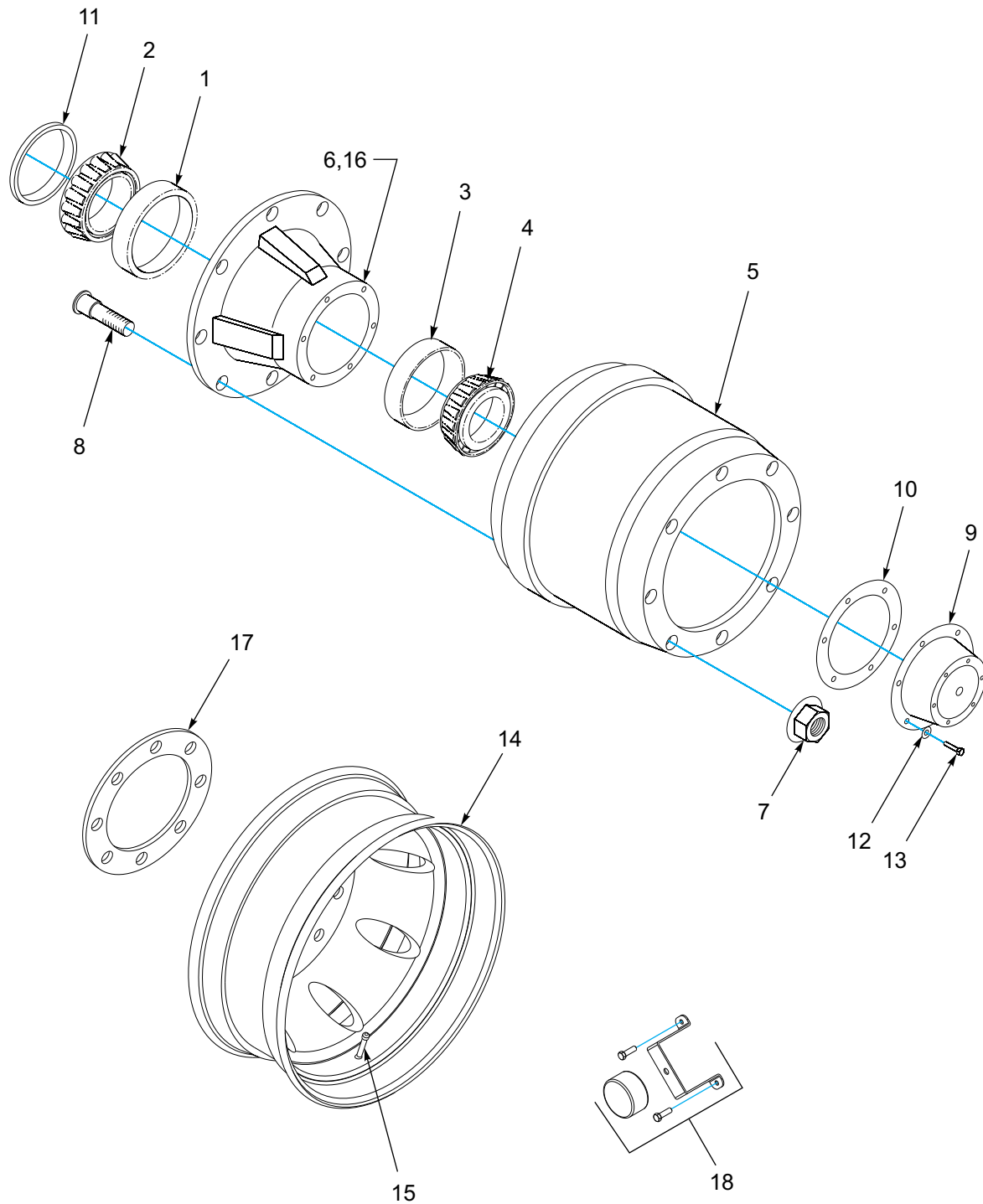


Figure 1-42: Outboard Pilot Mount Hub & Drum Assembly

Outboard Pilot Mount Hub & Drum Assembly

ITEM	PART NUMBER	DESCRIPTION	QTY.
1	HM218210	INNER BEARING CUP	1
2	HM218248	INNER BEARING CONE	1
3	HM212011	OUTER BEARING CUP	1
4	HM212049	OUTER BEARING CONE	1
5	63680	OUTBOARD MOUNTED BRAKE DRUM - 8 BOLT	1
	110976	OUTBOARD MOUNTED BRAKE DRUM - 10 BOLT	1
6	112492	HUB, 8 BOLT	1
	110975	HUB, 10 BOLT	1
7	179955	FLANGE NUT, 8 BOLT	8
8	113536	STUD, 22MM 3.5 STANDOUT	8
9	4009	CAP, HUB	1
10	3067	GASKET, OIL CAP	1
11	3-659-010012	SEAL	1
12	1-861-010034-10	WASHER, SPLIT LOCK 5/16	6
13	1-654-010049-03	SCREW, HEX HEAD CAP, 5/16-18 X 3/4 GR5	6
14	100402	WHEEL POL ALUM PILOT 17.5X6.75, 8 BOLT	1
	3-870-010097	WHEEL, DISC, PILOT MT 17.5X6.75, 8 BOLT	1
	112047	WHEEL AL PILOT 17.5X6.75 MACH, 8 BOLT	1
	3-870-010104	WHEEL, DISC PILOT MT 22.5X7.50, 10 BOLT	1
	3-870-010106	WHEEL, AL, PILOT MT 22.5X7.5POL, 10 BOLT	1
	3-870-010116	WHL, ALM, PLT MT 22.5X7.50, 10 BOLT	1
15	TR573	VALVE STEM	1
	100401	VALVE STEM TR553C	1
	TR545D	VALVE STEM	1
	1-843-010014	VALVE STEM, EXTENSION 3"	1
16	*	ABS TONE RING	1
17	114619	WHEEL GUARD 8 HOLE 275 MM BC (USED W/ ALUMINUM)	1
	3-870-010107	WHEEL GUARD 10 HOLE 285.75 MM BC	1
18	142550	HUBODOMETER W/ BRACKET, 235/75R17.5 TIRE	1
	137108	HUBODOMETER W/ BRACKET, 255/70R 27.5 TIRE	1
	123882	SPACER, WHEEL .375 X 10 HOLE HUB PILOT	1

* THIS PART SHOULD BE REPLACED IN CONJUNCTION WITH THE BRAKE DRUM. IT SHOULD NEVER BE SOLD SEPARATELY.

Air Brake System

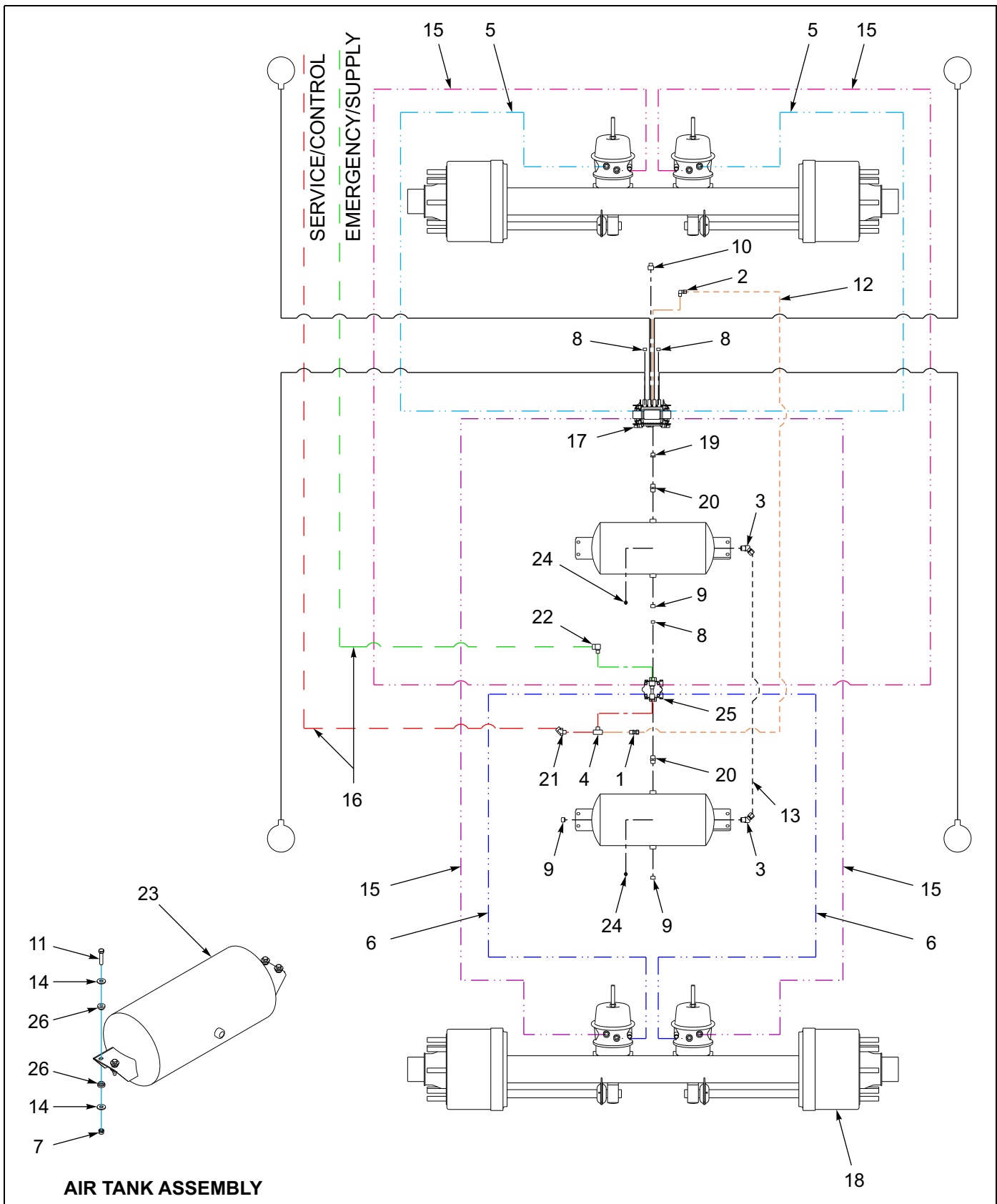


Figure 1-43: Air Brake System - 930D

Air Brake System - 930D

ITEM	PART NUMBER	DESCRIPTION	QTY.	
	196390	SUSP ASSY 930-12 2512-77	*	
	196392	SUSP ASSY 930-12 2516-75	*	
	196394	SUSP ASSY 930-14 2512-77	*	
	196396	SUSP ASSY 930-14 2516-75	*	
	196398	SUSP ASSY 930-15 2512-77	*	
	196400	SUSP ASSY 930-15 2516-75	*	
	196391	SUSP ASSY 930-12 2512-77 TIS		*
	196393	SUSP ASSY 930-12 2516-75 TIS		*
	196395	SUSP ASSY 930-14 2512-77 TIS		*
	196397	SUSP ASSY 930-14 2516-75 TIS		*
	196399	SUSP ASSY 930-15 2512-77 TIS		*
	196401	SUSP ASSY 930-15 2516-75 TIS		*
1	1-297-010007-12	FITTING AIR 3/8TUBE X 3/8NPT	1	1
2	1-297-010008-18	FITTING,AIR 90 3/8TUBEX1/4NPT	1	1
3	1-297-010013-16	FITTING,AIR 1/2X1/2 45 M/ELB	2	2
4	1-297-010017-03	FITTING,BRS PIPE M/BR TEE 3/8	1	1
5	1-384-010038024	HOSE AIR 3/8X24	2	2
6	1-384-010038038	HOSE AIR 3/8X38	2	2
7	1-512-010005-05	NUT, HEX, SLFLKG GRB 3/8-16	8	8
8	1-560-010002-03	PLUG, PIPE, 3/8NPTF	3	3
9	1-560-010002-04	PLUG, PIPE, 1/2NPT	3	2
10	1-560-010002-05	PLUG,PIPE, 3/4-14NPTF	1	1
11	1-654-010051-08	SCREW,HEX CAP,3/8-16X1-3/4 G	8	8
12	1-833-010002	TUBING NYLON 3/8 OD	9	9
13	1-833-010003	TUBING NYLON 1/2 OD	10	10
14	1-861-010032-11	WASHER, FLAT 3/8 W ZP/CD	16	16
15	101003	HOSE AIR 3/8X48 W/3/8 ENDS	4	4
16	109209	HOSE,AIR 3/8X244 W/3/8 ENDS	2	2
17	114584	ABS KIT WABCO 4S/2M TAB	1	1
18	115747	AXLE WLDMT 2512 SPG 7739.5	REF	REF
19	118-2659-9	BUSHING 1/2NPTX3/4NPT STL	1	1
20	2083-8-8S	NIPPLE 1/2NPTX1/2NPT	2	2
21	2088-6-6S	ADAPTER 45 3/8MPTX3/8FPT	1	1
22	2089-6-6S	ADAPTER 90 3/8MPTX3/8FPT	1	1
23	3-780-010002	TANK AIR 9.5X22.5 .5NPT PORTS	2	2
24	56D4	COCK,DRAIN AIR TANK VEL, 036019	2	2
25	758-181	VALVE TASK 4 PORT	1	1
26	805-2	BUSHINGS, STEP	16	16

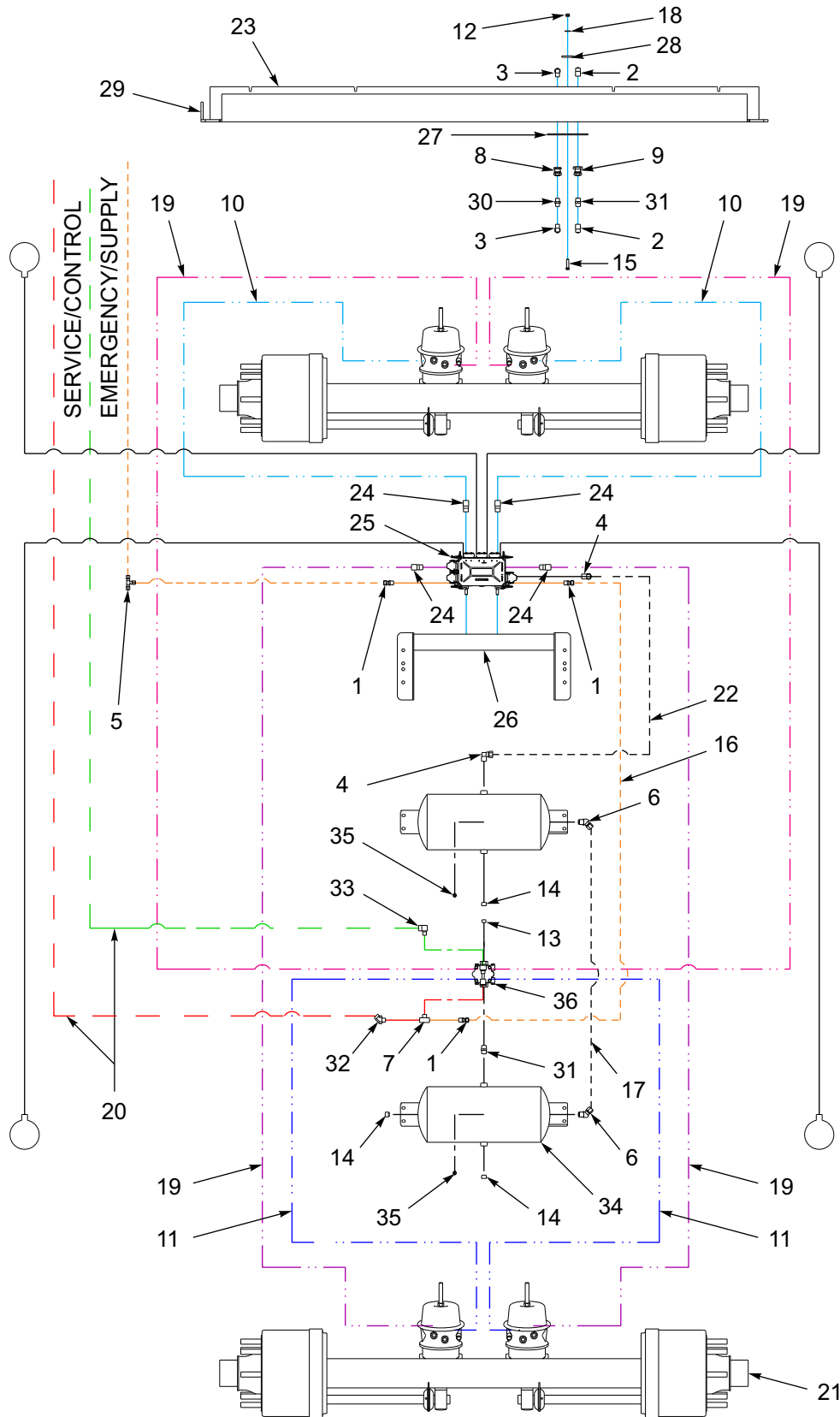


Figure 1-44: Air Brake System - 930D W/ RSS

Air Brake System - 930D W/ RSS

ITEM	PART NUMBER	DESCRIPTION	QTY.	
	196398	SUSP ASSY 930-15 2512-77	*	
	196399	SUSP ASSY 930-15 2512-77 TIS	*	
1	1-297-010007-12	FITTING AIR 3/8TUBE X 3/8NPT	3	3
2	1-297-010008-21	FITTING,AIR 90 3/8TUBEX1/2NPT	2	2
3	1-297-010008-23	FITTING,AIR 90 1/2TUBEX3/8NPT	2	2
4	1-297-010008-26	FITTING AIR 5/8TUBE X1/2NPT90	2	2
5	1-297-010010-03	FITTING,AIR, UNION TEE 3/8	1	1
6	1-297-010013-16	FITTING,AIR 1/2X1/2 45 M/ELB	2	2
7	1-297-010017-03	FITTING,BRS PIPE M/BR TEE 3/8	1	1
8	1-297-010022-03	FITTING,AIR ANCHR CPLG, 3/8NPT	1	1
9	1-297-010022-04	FITTING,AIR,ANCHR CPLG,1/2NPT	1	1
10	1-384-010038024	HOSE ASM AIR 3/8X24,W/3/8 END	2	2
11	1-384-010038038	HOSE ASM AIR 3/8X38,W/3/8 END	2	2
12	1-512-010005-05	NUT, HEX, SLFLKG GRB 3/8-16	10	10
13	1-560-010002-03	PLUG, PIPE, 3/8NPTF	1	1
14	1-560-010002-04	PLUG, PIPE, 1/2NPT	3	2
15	1-654-010051-07	SCREW,HEX CAP,3/8-16UNCX1-1/2	2	2
16	1-833-010002	TUBING NYLON 3/8 OD	9	9
17	1-833-010003	TUBING NYLON 1/2 OD	10	10
18	1-861-010032-11	WASHER, FLAT 3/8 W ZP/CD	18	18
19	101003	HOSE ASM AIR 3/8X48,W/3/8 END	4	4
20	109209	HOSE ASM AIR 3/8X244,W/3/8 END	2	2
21	115747	AXLE WLDMT 2512 SPG 7739.5	REF	REF
22	117304	TUBING NYLON 5/8	5	5
23	117532	CENTER CHANNEL, 410-102	REF	REF
24	126718	ADAPTER,90, 1/2NPT TO 3/8NPT	4	4
25	148904	ABS W/RSS WABCO 4S/2M TAN	1	1
26	148908	SUPPORT WLDMT ABS VALVE	1	1
27	148916	BRACKET AIR FILTER	1	1
28	148917	ANCHOR AIR BRACKET	1	1
29	148945	MOUNT ABS ELECT RSS	1	1
30	2083-6-6S	HYDR NIPPLE 3/8-18 NPTF	1	1
31	2083-8-8S	NIPPLE 1/2NPTX1/2NPT	2	2
32	2088-6-6S	ADAPTER 45 3/8MPTX3/8FPT	1	1
33	2089-6-6S	ADAPTER 90 3/8MPTX3/8FPT	1	1
34	3-780-010002	TANK AIR 9.5X22.5 .5NPT PORTS	2	2
35	56D4	COCK,DRAIN AIR TANK VEL, 036019	2	2
36	758-181	VALVE TASK 4 PORT	1	1

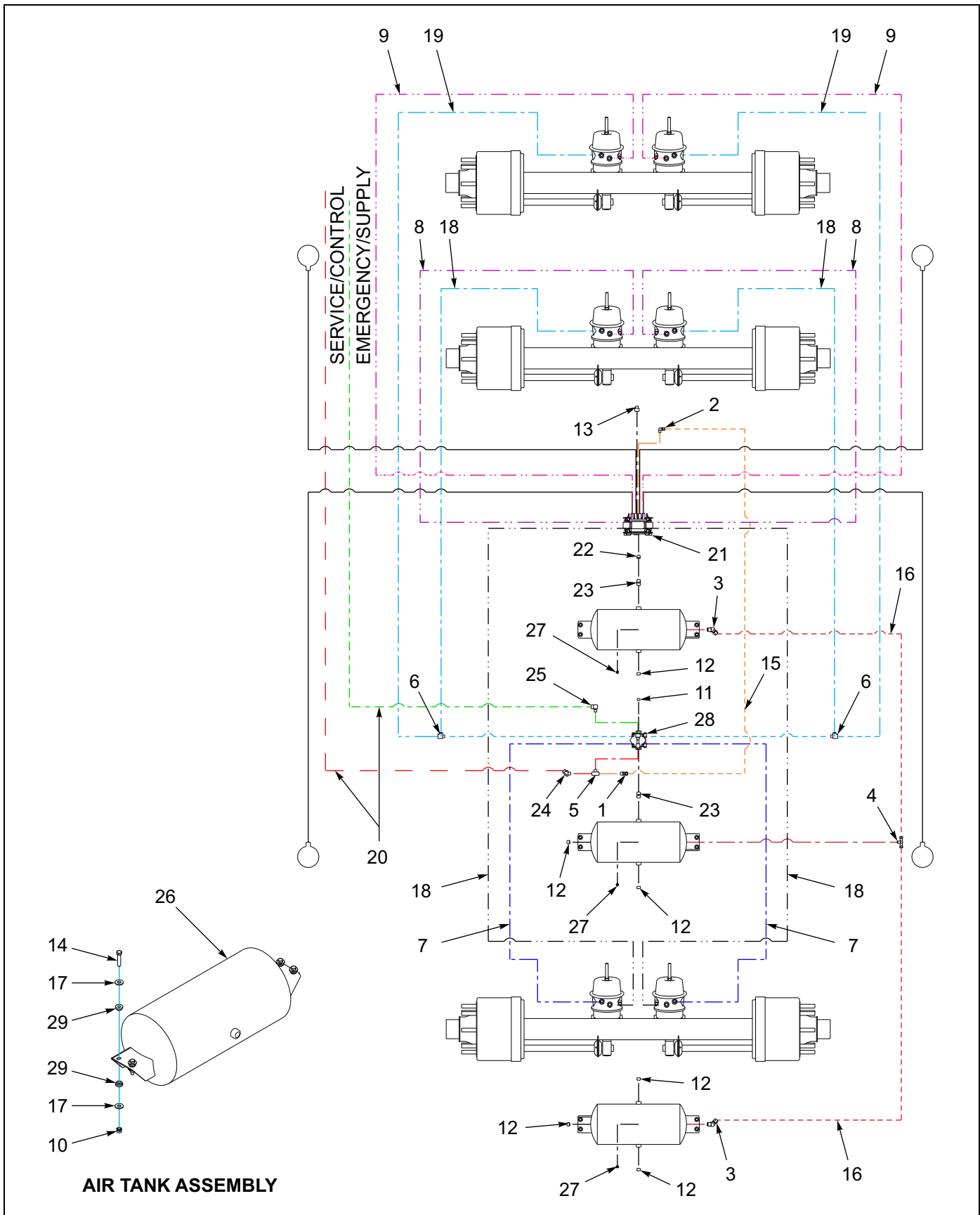


Figure 1-45: Air Brake System - 950D

Air Brake System - 950D

ITEM	PART NUMBER	DESCRIPTION	QTY.	
	196403	SUSP ASSY 950-12 2512-77	*	
	196405	SUSP ASSY 950-12 2516-75	*	
	196407	SUSP ASSY 950-14 2512-77	*	
	196409	SUSP ASSY 950-14 2516-75	*	
	196411	SUSP ASSY 950-15 2512-77	*	
	196413	SUSP ASSY 950-15 2516-75	*	
	196404	SUSP ASSY 950-12 2512-77 TIS		*
	196406	SUSP ASSY 950-12 2516-75 TIS		*
	196408	SUSP ASSY 950-14 2512-77 TIS		*
	196410	SUSP ASSY 950-14 2516-75 TIS		*
	196412	SUSP ASSY 950-15 2512-77 TIS		*
	196414	SUSP ASSY 950-15 2516-75 TIS		*
1	1-297-010007-12	FITTING AIR 3/8TUBE X 3/8NPT	1	1
2	1-297-010008-18	FITTING,AIR 90 3/8TUBEX1/4NPT	1	1
3	1-297-010013-16	FITTING,AIR 1/2X1/2 45 M/ELB	2	2
4	1-297-010015-11	FITTING,AIR,BR TEE 1/2T-1/2P	1	1
5	1-297-010017-03	FITTING,BRS PIPE M/BR TEE 3/8	1	1
6	1-297-010018-03	FITTING,3/8 BRASS PIPE,ST TEE	2	2
7	1-384-010038024	HOSE ASM AIR 3/8X24,W/3/8 END	2	2
8	1-384-010038038	HOSE ASM AIR 3/8X38,W/3/8 END	2	2
9	1-384-010038076	HOSE ASM AIR 3/8X76,W/3/8 END	2	2
10	1-512-010005-05	NUT, HEX, SLFLKG GRB 3/8-16	12	12
11	1-560-010002-03	PLUG, PIPE, 3/8NPTF	1	1
12	1-560-010002-04	PLUG, PIPE, 1/2NPT	6	5
13	1-560-010002-05	PLUG,PIPE, 3/4-14NPTF	1	1
14	1-654-010051-08	SCREW,HEX CAP,3/8-16X1-3/4 G	12	12
15	1-833-010002	TUBING NYLON 3/8 OD	10	10
16	1-833-010003	TUBING NYLON 1/2 OD	10	10
17	1-861-010032-11	WASHER, FLAT 3/8 W ZP/CD	24	24
18	101003	HOSE ASM AIR 3/8X48,W/3/8 END	4	4
19	103738	HOSE ASM AIR 3/8X100,W/3/8 END	2	2
20	112244	HOSE ASM AIR 3/8X268,W/3/8 END	2	2
21	114586	ABS KIT WABCO 4S/2MTRI/SPREAD	1	1
22	118-2659-9	BUSHING 1/2NPTX3/4NPT STL	1	1
23	2083-8-8S	NIPPLE 1/2NPTX1/2NPT	2	2
24	2088-6-6S	ADAPTER 45 3/8MPTX3/8FPT	1	1
25	2089-6-6S	ADAPTER 90 3/8MPTX3/8FPT	1	1
26	3-780-010002	TANK AIR 9.5X22.5 .5NPT PORTS	3	3
27	56D4	COCK,DRAIN AIR TANK VEL, 036019	3	3
28	758-181	VALVE TASK 4 PORT	1	1
29	805-2	BUSHINGS, STEP	24	24

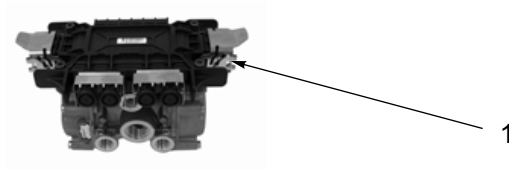


Figure 1-46: ABS Brake Kit - Rockwell

ABS Brake Kit - Rockwell

ITEM	PART NUMBER	DESCRIPTION	QTY.
	114584	ABS BRAKE KIT 4S/2M	
	114586	ABS BRAKE KIT 4S/2M-TRI/SPRD	
1	114588	ECU/VALVE ASSEMBLY	1
2	101848	SENSOR EXTENSION CABLE - 6 FT (114584)	4
	103861	SENSOR EXTENSION CABLE - 10 FT (114586)	4
3	147464	POWER/DIAGNOSTIC CABLE 4.0M/3.0M	1
4	101849	SPRING CLIP, ABS SENSOR	2

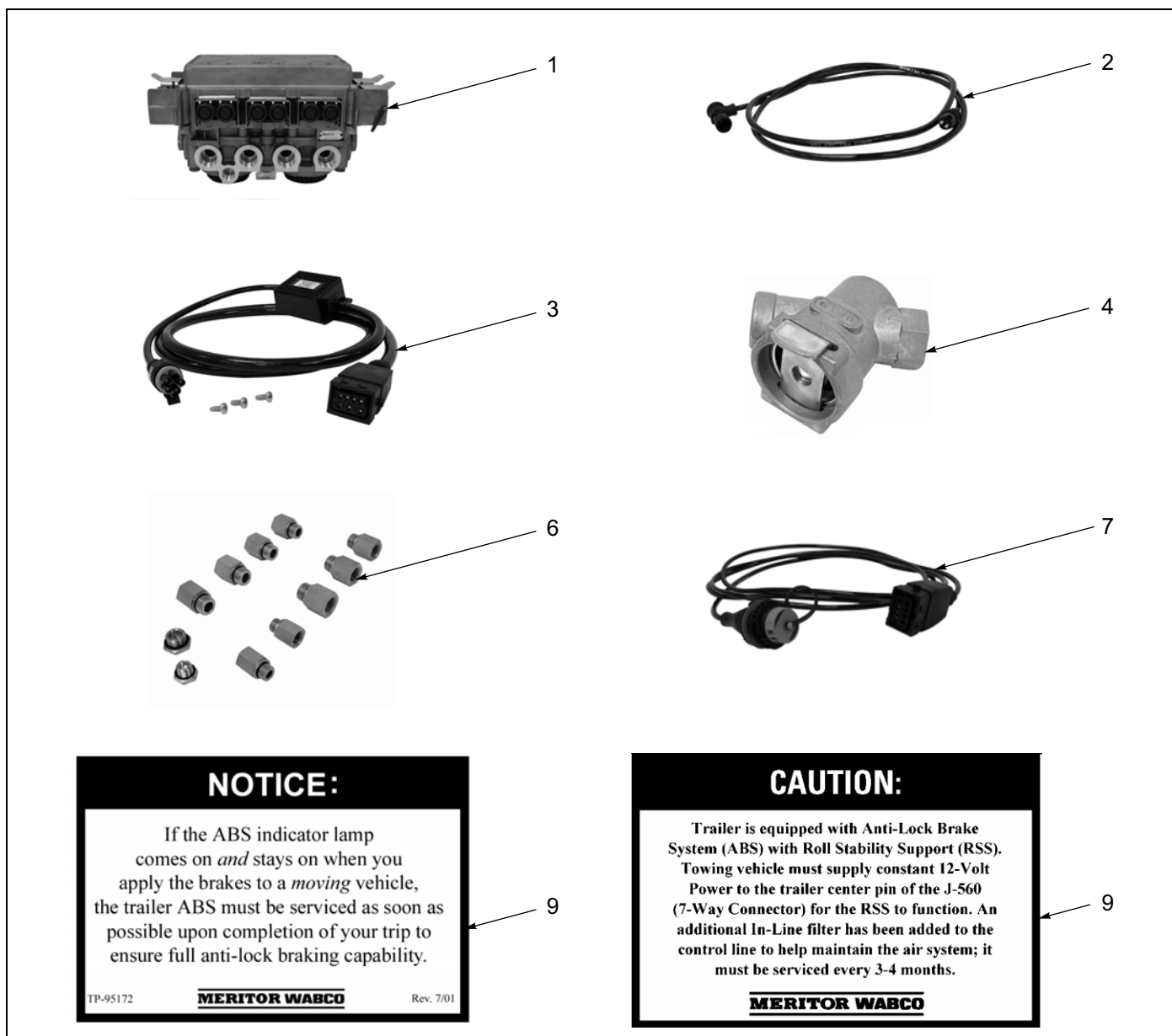


Figure 1-47: ABS Brake Kit - W/ RSS Rockwell

ABS Brake Kit - W/ RSS Rockwell

ITEM	PART NUMBER	DESCRIPTION	QTY.
	148904	ABS W/ RSS WABCO 4S/2M TANDEM	
1	148919	ECU/VALVE ASSEMBLY 4S/2M W/ RSS	1
2	101848	SENSOR EXTENSION CABLE - 6 FT.	4
3	148920	POWER CABLE - STD PLUG - 8 FT.	1
4	148921	IN-LINE CONTROL LINE FILTER	1
5	148922	IN-LINE SUPPLY LINE FILTER (NOT SHOWN)	1
6	148923	HARDWARE KIT	1
7	148924	DIAGNOSTIC CABLE	1
8	148925	POWER EXTENSION CABLE - 4 FT. (NOT SHOWN)	1
9	148926	ABS INDICATOR LABEL	1
10	148927	CONSTANT POWER LABEL	1

FRONT AXLE

REAR AXLE

LOCATION OF PRESSURE REGULATOR

Figure 1-48: Tire Inflation System - 930D

Tire Inflation System - 930D

ITEM	PART NUMBER	DESCRIPTION	QTY.
	196390	SUSP ASSY 930-12 2512-77	
	196398	SUSP ASSY 930-15 2512-77	
1	1-297-010008-07	FITTING, AIR 90	REF
2	1-297-010010-01	FITTING, AIR UNION TEE	REF
3	1-512-010007-05	NUT, HX, 1/4-20 UNC, GR2	REF
4	1-654-010047-06	SCREW, HEX, 1/4-20 UNC X 1 GR5	REF
5	1-833-010001	TUBING, NYLON, 1/4 OD	REF
6	1-861-010032-07	WASHER, FLAT, ZP/CD, 1/4W	REF
7	1-861-010034-09	WASHER, LKG, HLCL, SPR, 1/4	REF
8	157702	TIRE INFLATION SYSTEM 2AX (SEE PAGE 1-82)	1
9	176473	HARNESS KIT TIRE INFL 400/900 (NOT SHOWN) (SEE PAGE 1-84)	--
10	2083-8-4S	NIPPLE, HEX 1/2 - 1/4	REF
11	3-780-010002	TANK, AIR	2
12	905-54-107	BRAKE PROTECTION VALVE	REF

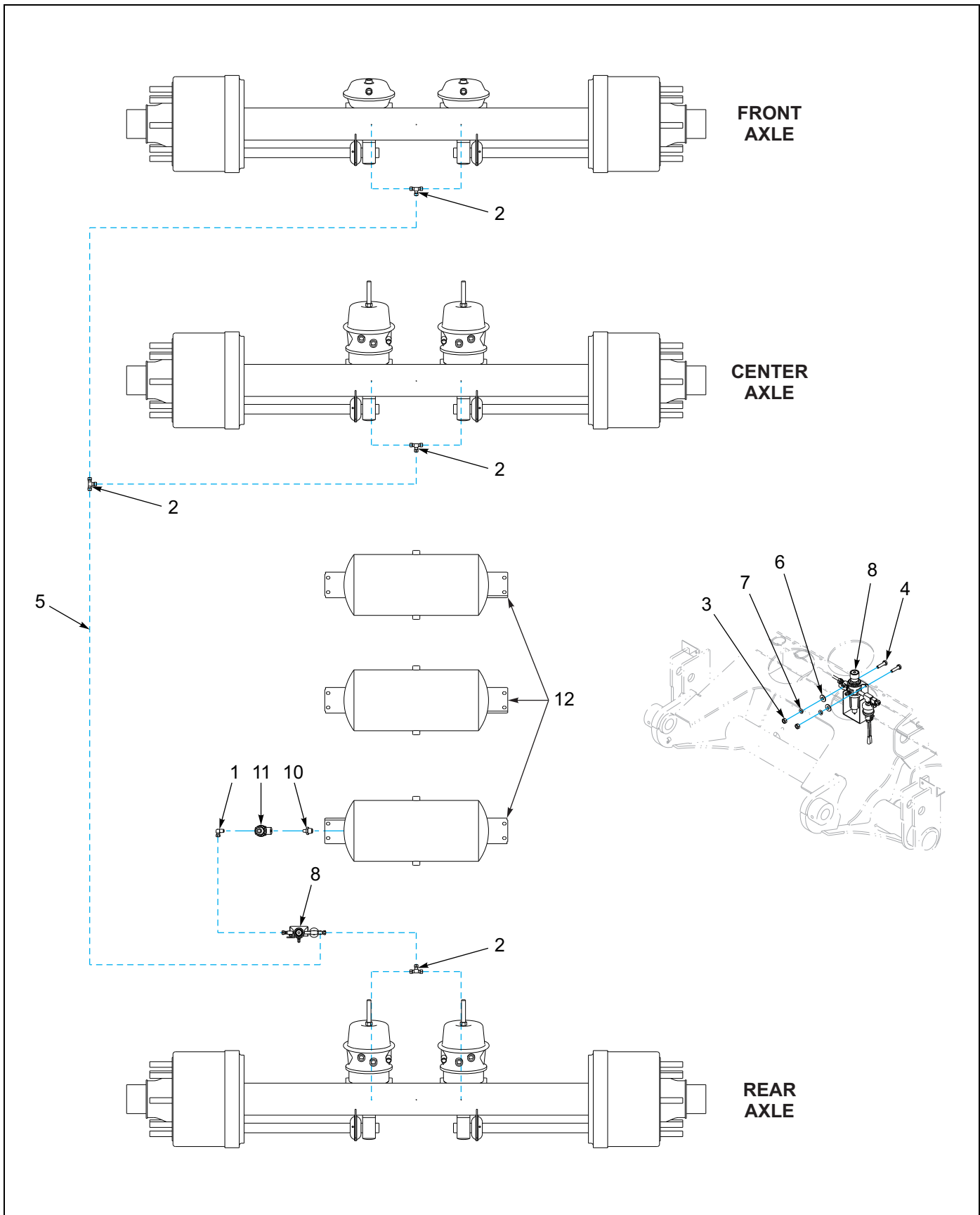


Figure 1-49: Tire Inflation System - 950D

Tire Inflation System - 950D

ITEM	PART NUMBER	DESCRIPTION	QTY.
	196403	SUSP ASSY 950-12 2512-77	
1	1-297-010008-07	FITTING, AIR 90	REF
2	1-297-010010-01	FITTING, AIR UNION TEE	REF
3	1-512-010007-05	NUT, HX, 1/4-20 UNC, GR2	REF
4	1-654-010047-06	SCREW, HEX, 1/4-20 UNC X 1 GR5	REF
5	1-833-010001	TUBING, NYLON, 1/4 OD	REF
6	1-861-010032-07	WASHER, FLAT, ZP/CD, 1/4W	REF
7	1-861-010034-09	WASHER, LKG, HLCL, SPR, 1/4	REF
8	157703	TIRE INFLATION SYSTEM 3AX (SEE PAGE 1-82)	1
9	176473	HARNESS KIT TIRE INFL 400/900 (NOT SHOWN) (SEE PAGE 1-84)	1
10	2083-8-4S	NIPPLE, HEX 1/2 - 1/4	REF
11	905-54-107	BRAKE PROTECTION VALVE	REF
12	3-780-010002	TANK AIR	3

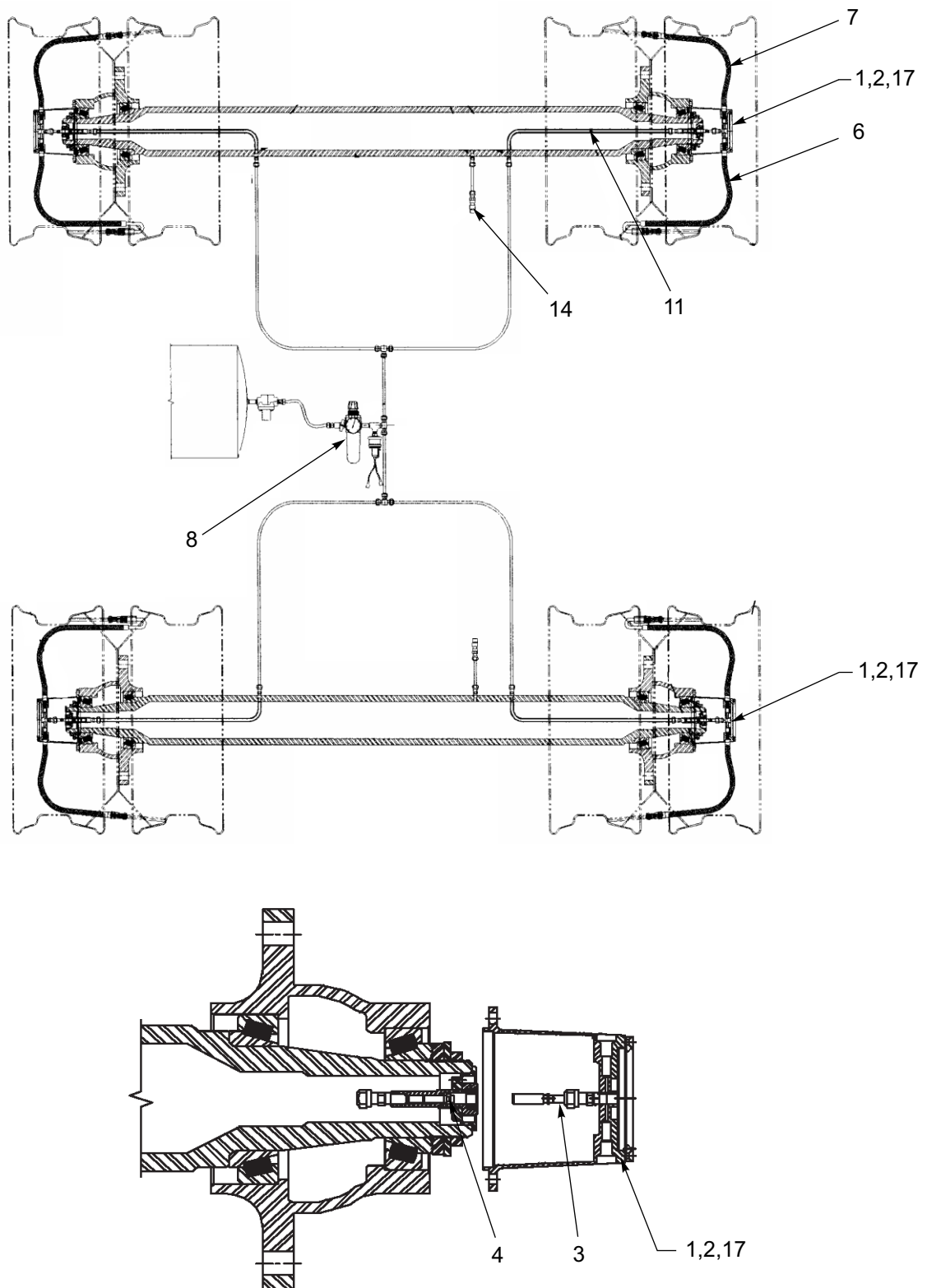


Figure 1-50: Tire Inflation System - 2AX/3AX

Tire Inflation System - 2AX/3AX

ITEM	PART NUMBER	DESCRIPTION	QTY.	
	157702	TIRE INFLATION SYSTEM 2AX	*	
	157703	TIRE INFLATION SYSTEM 3AX	*	
1	139529	HUB CAP ASSEMBLY, LOW PROFILE 5.5" OIL	4	6
2	157704	GASKET, HUB CAP	4	6
3	157705	ROTATING SHAFT, UNIVERSAL	4	6
4	157706	SPINDLE PLUG, 1.75"	4	6
5	157707	AIR CYLINDER ASSEMBLY (NOT SHOWN)	4	6
6	159338	HOSE ASSEMBLY, OUTER TIRE	4	6
7	159337	HOSE ASSEMBLY, INNER TIRE	4	6
8	148416	REGULATOR ASSEMBLY W/ BALL VALVE	1	1
9	-----	WARNING LIGHT WIRE (NOT SHOWN)	1	1
10	-----	NYLON AIR TUBE (NOT SHOWN)	1	1
11	-----	CHAFE GUARD	1	1
12	-----	LARGE WIRE TIES (NOT SHOWN)	3	3
13	148417	TRIPLE AXLE HARDWARE KIT (NOT SHOWN)	1	1
	148413	DUAL AXLE HARDWARE KIT (NOT SHOWN)	1	1
14	-----	AXLE VENT	1	1
15	145677	LIGHT PRESSURE GUARD (NOT SHOWN)	1	1
16	154653	PRESSURE SWITCH (NOT SHOWN)	1	1
17	085-002-02	RUBBER PLUG	4	6
18	194159	SPINDLE PLUG W/ ROTATING SHAFT KIT (NOT SHOWN) (ITEMS 3 & 4)	4	6

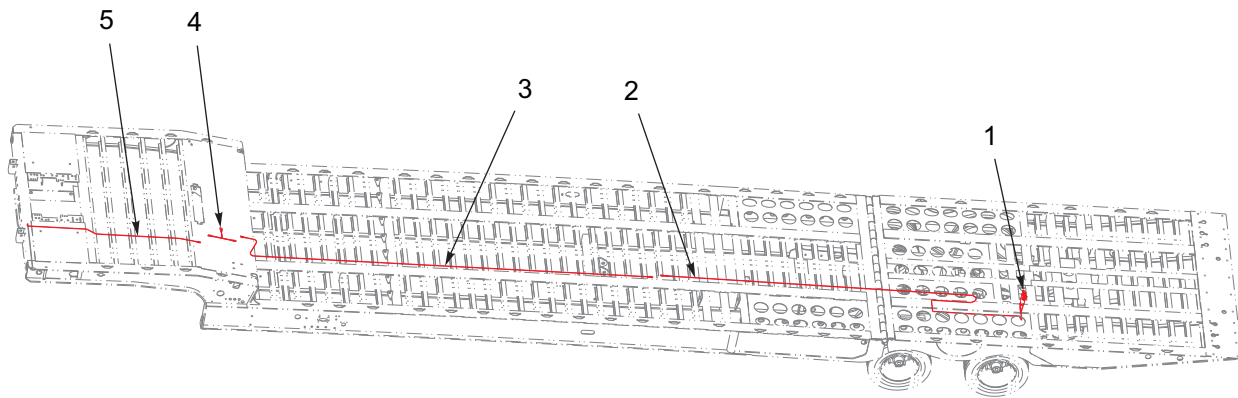
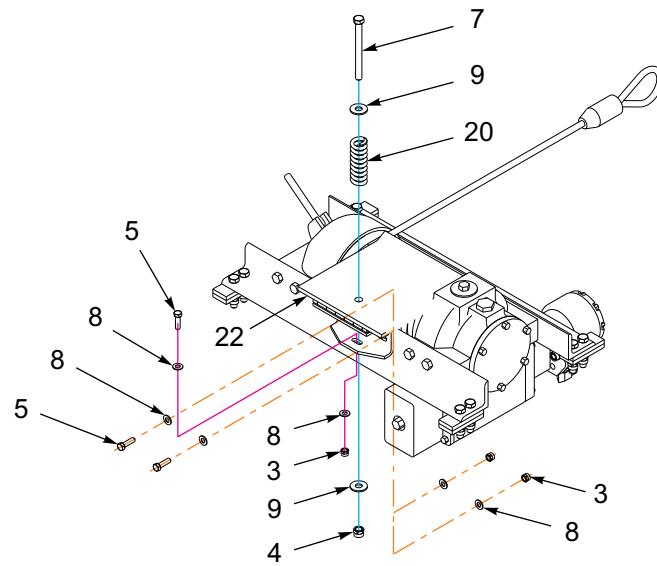


Figure 1-51: Tire Inflation System - Harness Kit

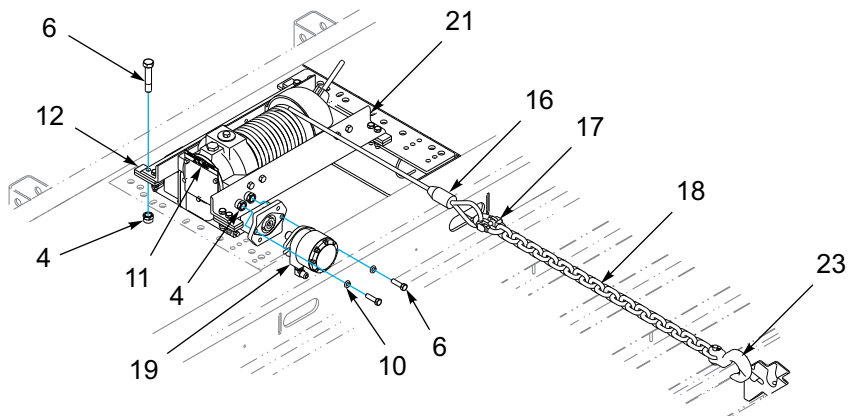
Tire Inflation System - Harness Kit

ITEM	PART NUMBER	DESCRIPTION	QTY.
	176473	HARNESS KIT, TIRE INFLATION SYSTEM	
1	157703	TIRE INFLATION SYSTEM 3AX	REF
	157702	TIRE INFLATION SYSTEM 2AX	REF
2	176476	HARNESS, TIRE INFLATION LD25S	1
3	176477	HARNESS, TIRE INFLATION LD30	1
4	176478	HARNESS, TIRE INFLATION LDPWR	1
5	176479	HARNESS, TIRE INFLATION LD15L	1

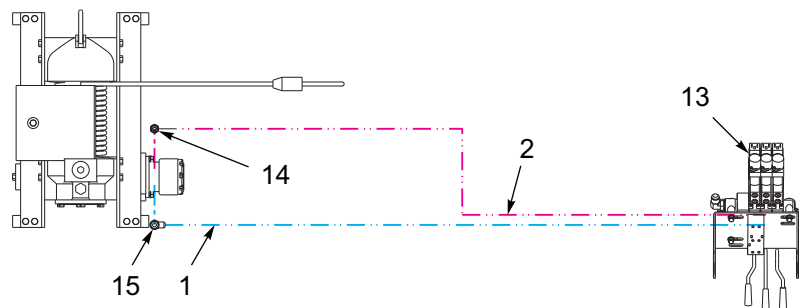
Winches



SPRING TENSIONER ASSEMBLY



WINCH ASSEMBLY



HYDRAULIC SYSTEM

Figure 1-52: Winch Installation - 12K Spring Tension (BRADEN)

Winch Installation - 12K Spring Tension (BRADEN)

ITEM	PART NUMBER	DESCRIPTION	QTY.
	3-873-010144-01	WINCH, 12K SPRING TENSION	
1	1-397-010301170	HOSE ASSEMBLY 1/2 X 170	1
2	1-397-010302172	HOSE ASSEMBLY 1/2 X 172	1
3	1-512-010005-05	NUT, HEX LOCK 3/8-16	3
4	1-512-010005-09	NUT, HEX LOCK 1/2-13 GRB	11
5	1-654-010051-06	SCREW, HEX HEAD CAP 3/8-16 X 1-1/4 GR5	3
6	1-654-010055-04	SCREW, HEX, 1/2-13 UNC X 1-3/4 GR5	10
7	1-654-010055-16	SCREW, HEX HEAD CAP 1/2-13 X 5-1/2 GR5	1
8	1-861-010032-10	WASHER, FLAT 3/8N	6
9	1-861-010032-15	WASHER, FLAT, ZP/CD, 1/2W	2
10	1-861-010034-13	WASHER, SPLIT LOCK 1/2	2
11	100600	DECAL, WARNING, BRADEN WINCH	1
12	116378	SPACER, WINCH	8
13	148241	VALVE ASSEMBLY, 3-SPOOL 400	REF
14	202702-10-8S	ADAPTER, #10 O-RING - #8 TUBE	1
15	2062-10-8S	ADAPTER, 90, #10 O-RING - #8 TUBE	1
16	3-155-010017-4	CABLE ASSEMBLY, 1/2 X 85' LENGTH	REF
17	3-174-010038	CHAIN LINK, CONNECTING, 1/2	1
18	3-174-010039036	CHAIN, 1/2 X 36" GRD7	1
19	3-481-010006	MOTOR HYD. - 12K (SEE PAGE 1-105)	1
20	3-720-010010	SPRING COMPRESSION	1
21	3-873-010122	WINCH ASSEMBLY, 12,000LB.	1
22	3-873-010124	WINCH TENSIONER, 20K BRADEN SPRING	1
23	7HCGHT500	HOOK, CLEVIS, GRAB 1/2	1

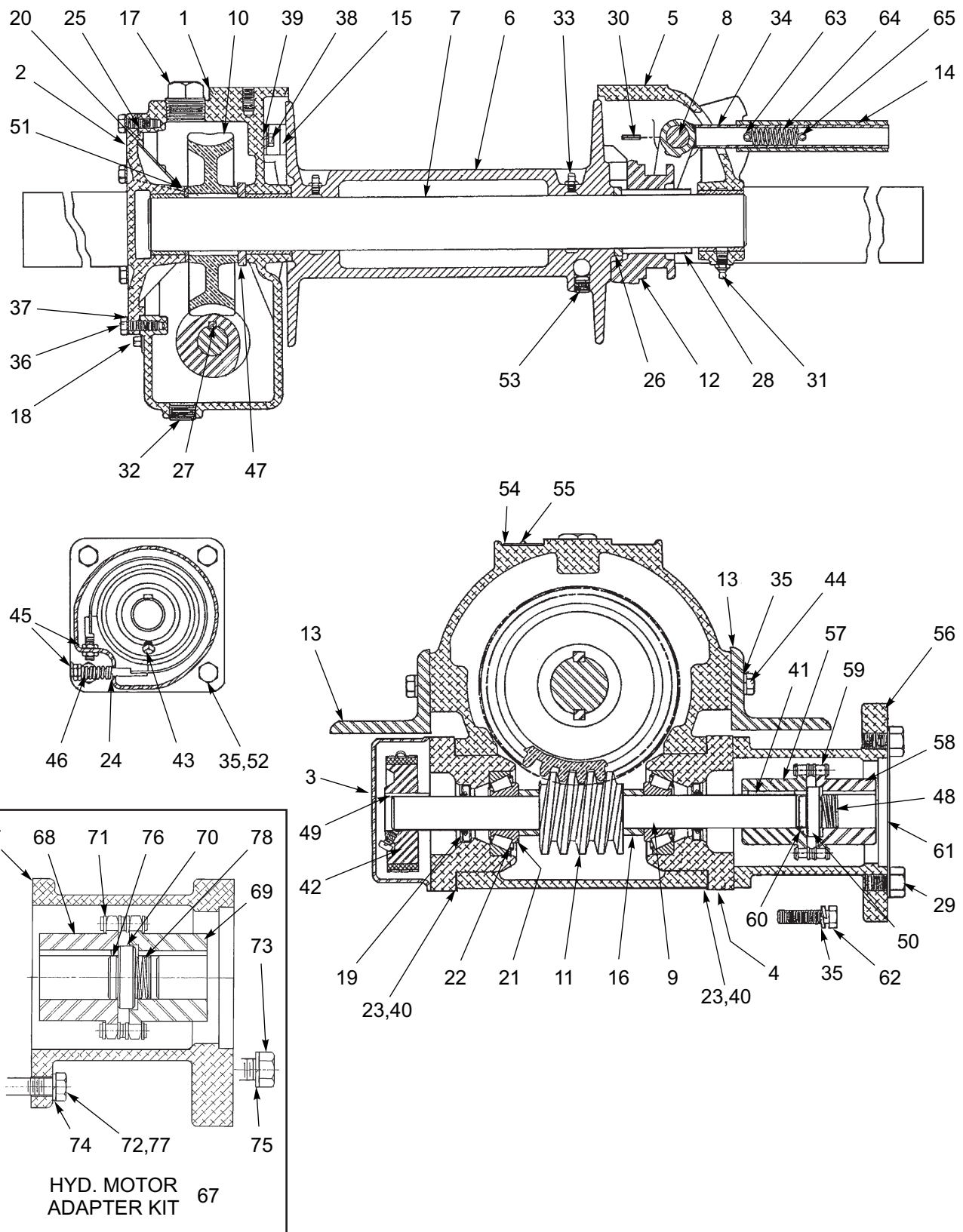


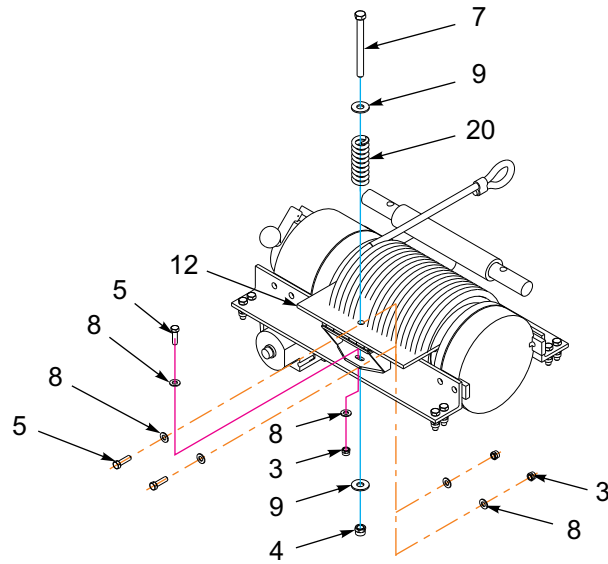
Figure 1-53: Winch Items - 12,000 Lb. (BRADEN)

Winch Items - 12,000Lb. (BRADEN)

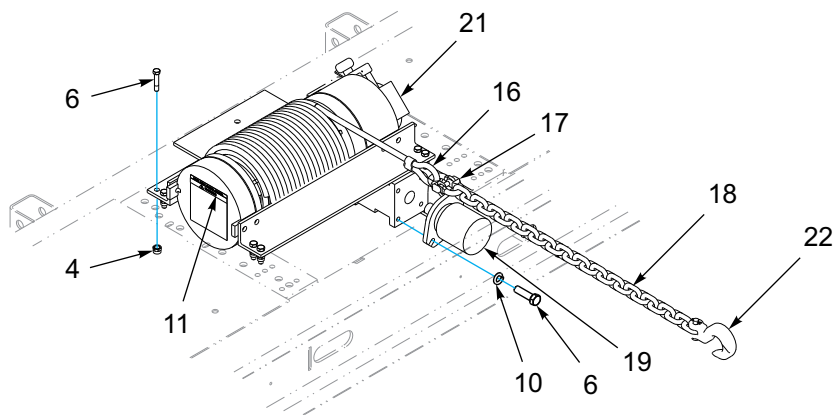
ITEM	PART NUMBER	REFERENCE NO.	DESCRIPTION	QTY.
	3-873-010122		WINCH ASSEMBLY 12K - BRADEN	
1	81006	81006	WORM HOUSING ASSEMBLY	1
1A	18078	18078	BUSHING	1
2	81009	81009	COVER ASSEMBLY WORM HOUSING	1
2A	11368	11368	BUSHING	1
3	18032	18032	HOUSING SAFETY BRAKE	1
4	23303	23303	CONTAINER BEARING	2
5	81530	81530	LEG ASSEMBLY BEARING	1
6	11128	11128	DRUM CABLE	1
7	11129	11129	DRUM SHAFT CABLE	1
8	11130	11130	SHIFTER SHAFT	1
9	23470	23470	SHAFT WORM	1
10	11144	11144	GEAR WORM LEFT HAND	1
11	11142	11142	WORM LEFT HAND	1
12	18039	18039	SLIDING CLUTCH	1
13	22752	22752	ANGLE BASE	2
14	12817	12817	SHIFTER HANDLE	1
15	81025	81025	BRAKE DRAG	1
16	11308	11308	SPACER WORM	2
17	----	22775	PLUG PIPE	1
18	18009	18009	PLUG PIPE	1
19	18026	18026	SEAL GREASE	2
20	11117	11117	KEY WORM GEAR	2
21	18015	18015	CONE BEARING	2
22	18016	18016	CUP BEARING	2
23	18027	18027	GASKET	3
24	21925	21925	BAND BRAKE	1
25	11133	11133	WORM HOUSING COVER GASKET	3
26	18019	18019	RETAINER RING	1
27	18030	18030	KEY WORM	1
28	18020	18020	KEY CLUTCH	2
29	----	10009	CAPSCREW	2
30	11837	11837	ROLLPIN	2
31	18047	18047	FITTING GREASE	1
32	19045	19045	PLUG PIPE	1
33	----	11799	FITTING GREASE	2
34	13839	13839	SHIFTER FORK	1
35	----	18003	WASHER LOCK	16
36	----	11767	CAPSCREW	6
37	----	11011	WASHER LOCK	6
38	13005	13005	CAPSCREW	2
39	----	12780	WASHER LOCK	2
40	18024	18024	BEARING CONTAINER GASKET	3
41	18044	18044	KEY	1
42	18028	18028	DRUM BRAKE	1
43	12075	12075	SETSCREW	1
44	----	21961	CAPSCREW	12
45	13468	13468	JAM NUT	4

Winch Items - 12,000Lb. (BRADEN)

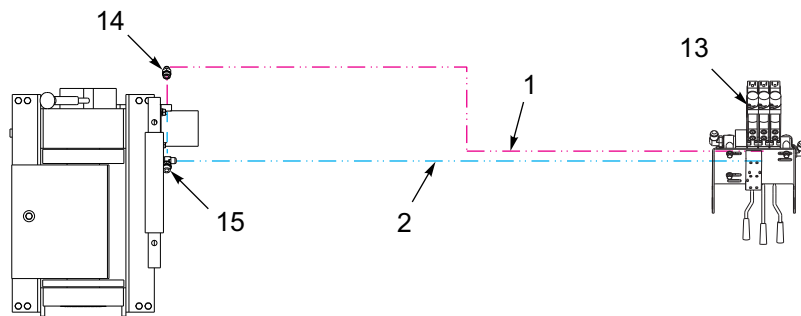
ITEM	PART NUMBER	REFERENCE NO.	DESCRIPTION	QTY.
46	18029	18029	BRAKE BAND SPRING	1
47	11240	11240	RETAINER RING	1
48	----	23353	SPRING	1
49	10078	10078	KEY	1
50	23078	23078	SPACER	1
51	13680	13680	THRUST RING	1
52	----	22703	CAPSCREW	4
53	----	24032	SETSCREW	1
54	----	23310	WARNING PLATE	1
55	----	11842	DRIVE SCREW	2
56	23079	23079	MOTOR ADAPTER	1
57	23081	23081	COUPLING HALF - WORM SHAFT	1
58	23083	23083	COUPLING HALF - MOTOR SHAFT	1
59	13424	13424	ROLLER CHAIN	1
60	23085	23085	SPACER	1
61	----	21959	SHIPPING COVER	1
62	----	22704	CAPSCREW	4
63	13028	13028	ROLLPIN	1
64	18002	18002	SPRING	1
65	18056	18056	ROLLPIN	1
66	61333	61333	HYD. MOTOR ADAPTER KIT, 12,000# WINCH (ITEMS 67- 78)	1
67	23079	23079	ADAPTER, MOTOR	1
68	23081	23081	COUPLING HALF, WINCH	1
69	23083	23083	COUPLING HALF, MOTOR	1
70	23078	23078	SPACER, CONSTANT	1
71	13424	13424	CHAIN ROLLER	1
72	----	----	CAPSCREW	4
73	----	----	CAPSCREW	4
74	----	27152	LOCKWASHER	4
75	----	11026	LOCKWASHER	4
76	----	23085	SPACER	1
77	----	----	CAPSCREW	4
78	110452	23353	SPRING SPACER	1



SPRING TENSIONER ASSEMBLY



WINCH ASSEMBLY



HYDRAULIC SYSTEM

Figure 1-54: Winch Installation - 20K Spring Tension (BRADEN)

Winch Installation - 20K Spring Tension (BRADEN)

ITEM	PART NUMBER	DESCRIPTION	QTY.
	3-873-010140-01	WINCH, 20K SPRING TENSION	
1	1-397-010301170	HOSE ASSEMBLY 1/2 X 170	1
2	1-397-010302172	HOSE ASSEMBLY 1/2 X 172	1
3	1-512-010005-05	NUT, HEX LOCK 3/8-16	3
4	1-512-010005-09	NUT, HEX LOCK 1/2-13 GRB	9
5	1-654-010051-06	SCREW, HEX HEAD CAP 3/8-16 X 1-1/4 GR5	3
6	1-654-010055-04	SCREW, HEX, 1/2-13 UNC X 1-3/4 GR5	10
7	1-654-010055-16	SCREW, HEX HEAD CAP 1/2-13 X 5-1/2 GR5	1
8	1-861-010032-10	WASHER, FLAT 3/8N	6
9	1-861-010032-15	WASHER, FLAT, ZP/CD, 1/2W	2
10	1-861-010034-13	WASHER, SPLIT LOCK 1/2	2
11	100600	DECAL, WARNING, BRADEN WINCH (SEE PAGE 1-3)	1
12	102186	WINCH TENSIONER, 20K BRADEN SPRING	1
13	148241	VALVE ASSEMBLY, 3-SPOOL 400	REF
14	202702-10-8S	ADAPTER, #10 O-RING - #8 TUBE	1
15	2062-10-8S	ADAPTER, 90, #10 O-RING - #8 TUBE	1
16	3-155-010018-6	CABLE, 5/8, WITH LOOP, 85 FEET	REF
17	3-174-010038	CHAIN LINK, CONNECTING, 1/2	1
18	3-174-010039036	CHAIN, 1/2 X 36" GRD7	1
19	3-481-010007	MOTOR HYD. 12.9 CU. IN/REV, SAE B (SEE PAGE 1-104)	1
20	3-720-010010	SPRING COMPRESSION	1
21	3-873-010123	WINCH ASSEMBLY, 20,000LB. (SEE PAGE 1-100)	1
22	7HCGHT500	HOOK, CLEVIS, GRAB 1/2	1

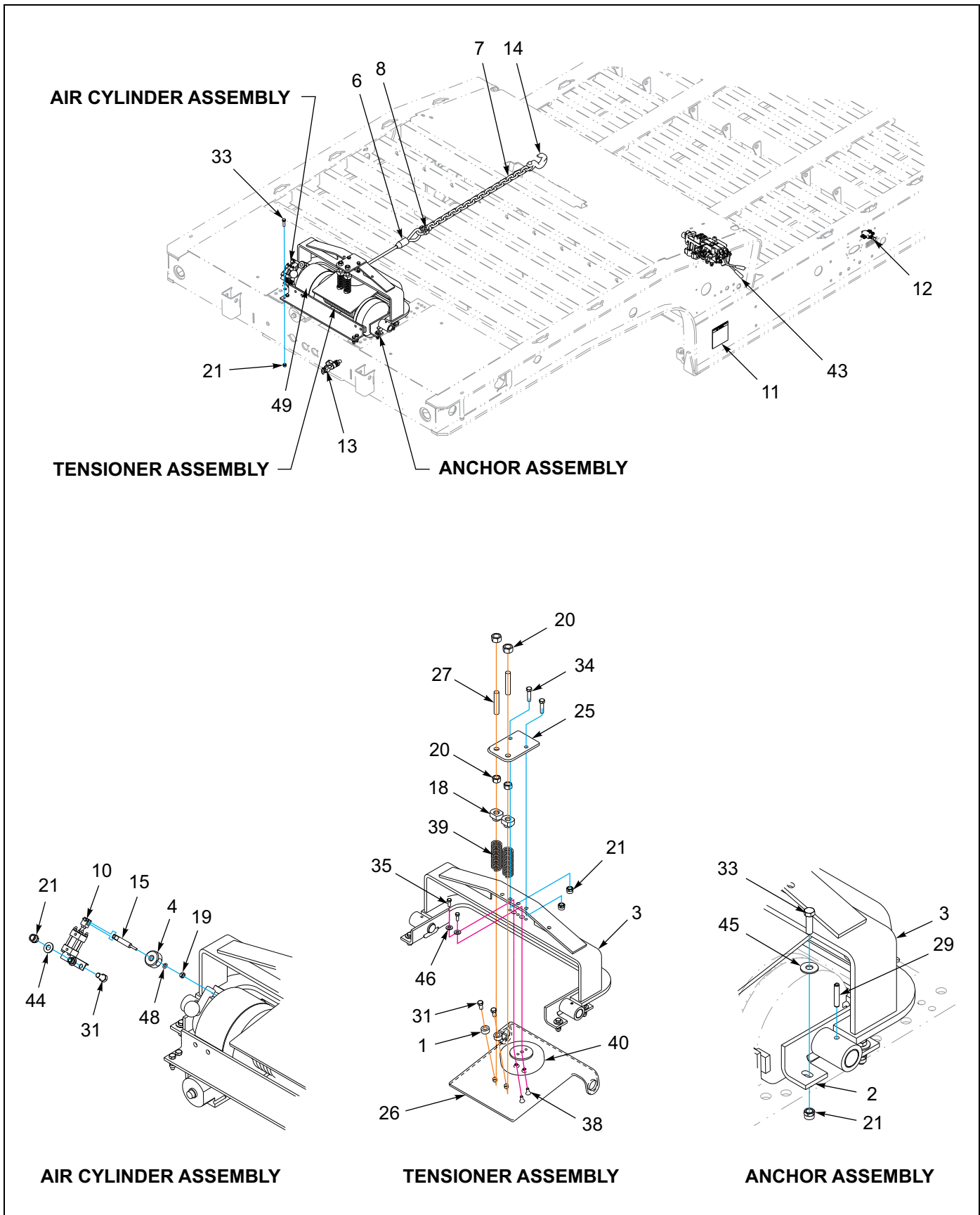


Figure 1-55: Winch Installation - 20K Air Tension/Release (BRADEN) (1 of 3)

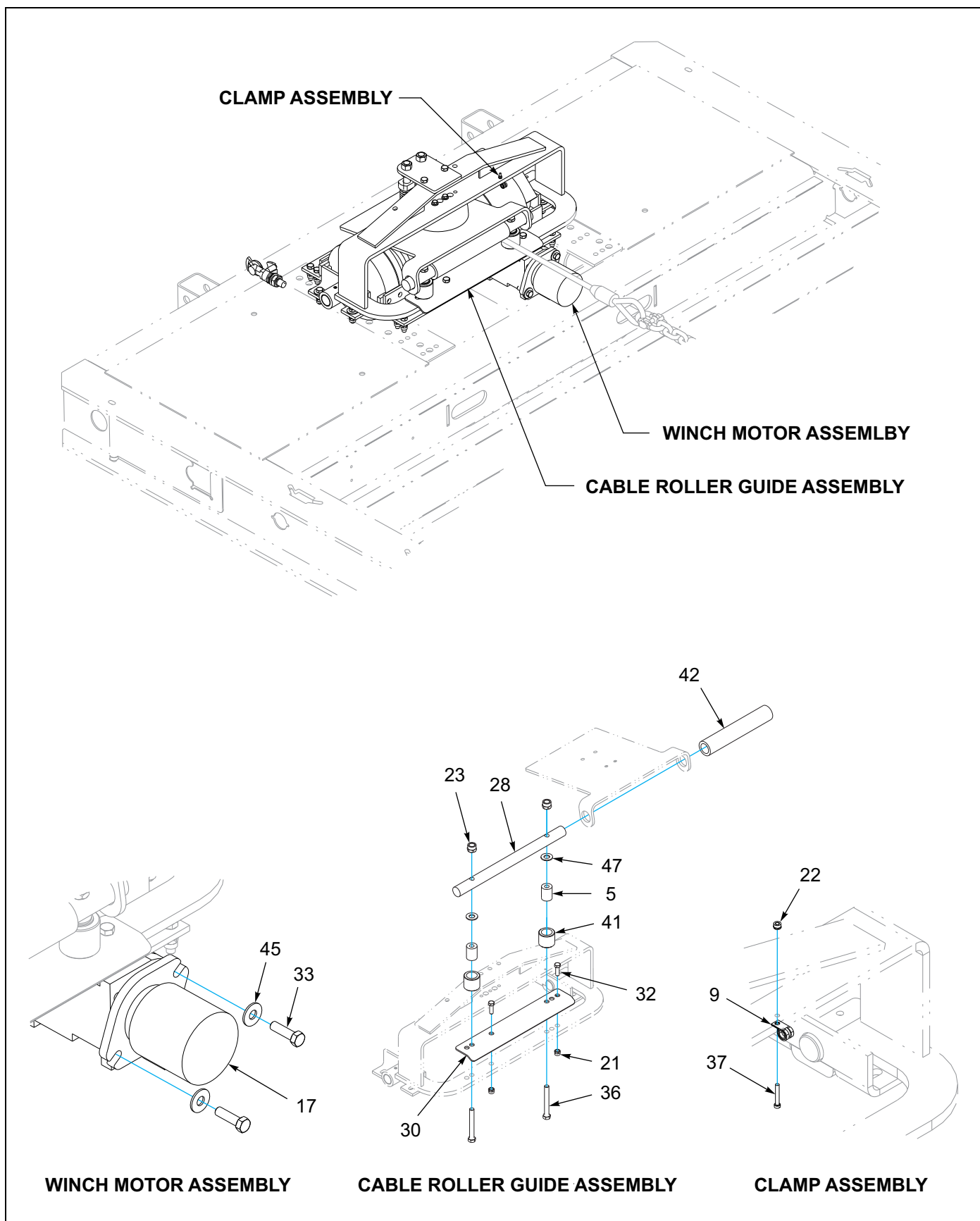


Figure 1-56: Winch Installation - 20K Air Tension/Release (BRADEN) (2 of 3)

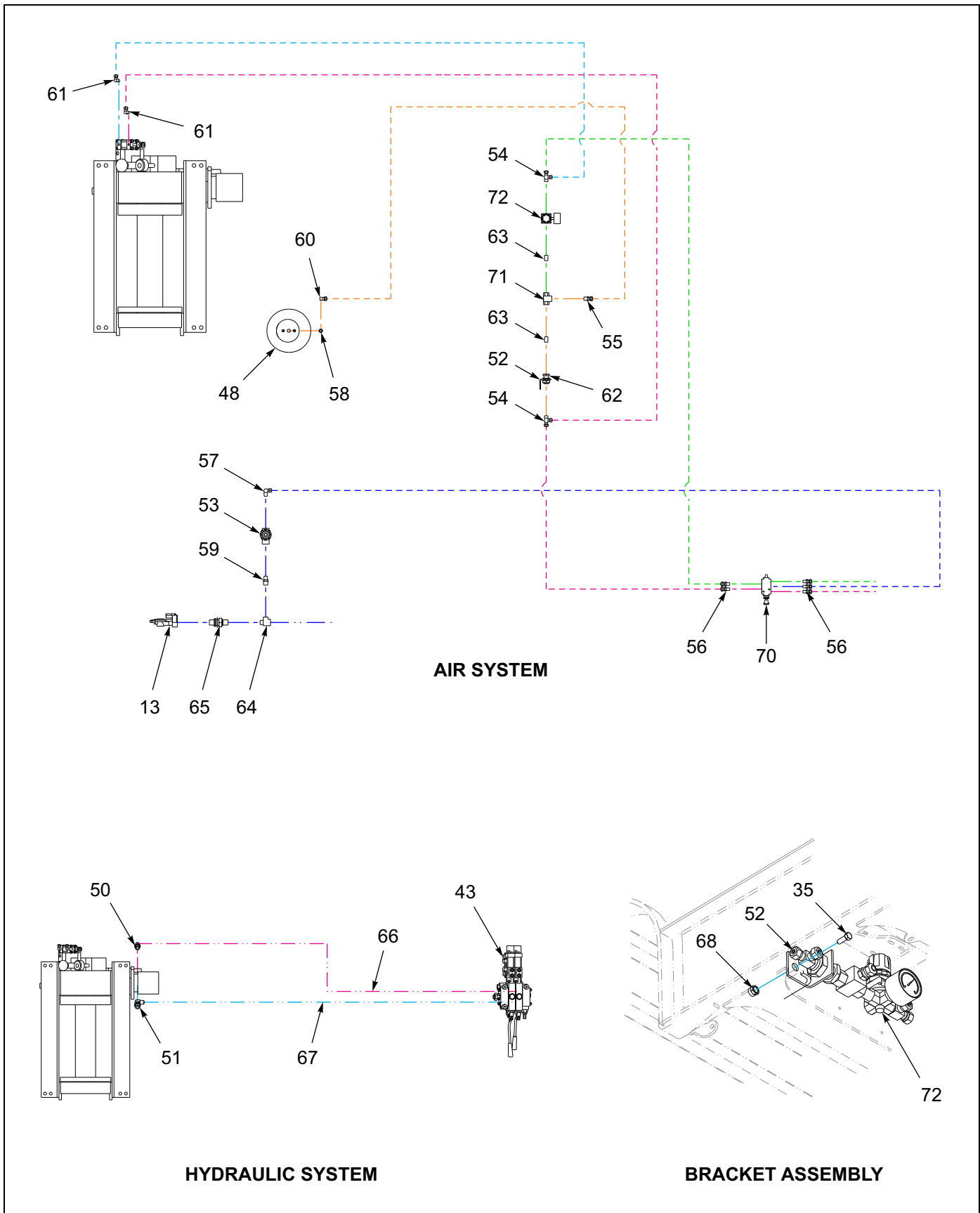


Figure 1-57: Winch Installation - 20K Air Tension/Release (BRADEN) (3 of 3)

Winch Installation - 20K Air Tension/Release (BRADEN)

ITEM	PART NUMBER	DESCRIPTION	QTY.
	162415	WINCH INSTALLATION, 20K GUIDE AIR TENSION/RELEASE - STD	
1	3-014-010255	ANCHOR BUSHING F/W SPRING TENSION	2
2	119621	ANCHOR CABLE GUIDE WINCH (NOT SHOWN)	2
3	3-125-010465	BRACKET WELDMENT WINCH TENSIONER	1
4	3-150-010186	BUSHING WINCH REMOTE LEVER	1
5	3-150-010196	BUSHING, ROD ROLLER	2
6	3-155-010018-6	CABLE 85' W/ LOOP	REF
7	3-174-010039036	CHAIN 1/2 X 36 GR7	1
8	3-174-010038	CHAIN LINK CONNECTING 1/2	1
9	125892	SUPPORT CLAMP	1
10	107368	WINCH AIR SHIFT CYL (SEE PAGE 1-103)	1
11	100600	DECAL, WARNING WINCH (SEE PAGE 1-3)	1
12	135184	DECAL, WINCH FREE SPOOL (NOT SHOWN)	1
13	108801	GLAD HAND, RED AIR	REF
14	7HCGHT500	HOOK, CLEVIS GRAB 1/2	1
15	107369	LEVER WINCH FREE SPOOL	1
16	#242 LOCKTITE	LOCKTITE, #242, BLUE REMOVABLE (NOT SHOWN)	.10
17	3-481-010007	MOTOR HYD. (SEE PAGE 1-104)	1
18	3-522-010017	NUT F/W SPRING TENSION	2
19	1-512-010007-05	NUT, HEX 1/4-20 GRB	1
20	1-512-010007-12	NUT, HEX 3/4-10 GRB	4
21	1-512-010005-09	NUT, HEX LOCK 1/2-13 GRB	18
22	1-512-010004-03	NUT, HEX LOCK #10-24	1
23	1-512-010005-13	NUT, HEX LOCK 5/8-11 GRB	2
24	119622	PIN, PIVOT WINCH ROLLER (NOT SHOWN)	2
25	3-565-011688	PLATE F/W SPRING TENSION	1
26	102187	PLATE, WINCH TENSIONER	1
27	RTR7999X4ZP	ROD THREADED	2
28	102188	ROD, PIVOTING GUIDE	1
29	1-647-010004255	PIN, SPRING SLOTTED 2 X 3/8 (NOT SHOWN)	2
30	143246	RUB BAR, CABLE GUIDE WINCH	1
31	1-654-010055-01	SCREW, HEX HEAD CAP 1/2-13 X 1 GR5	4
32	1-654-010055-03	SCREW, HEX HEAD CAP 1/2-13 X 1-1/2 GR5	2
33	1-654-010055-04	SCREW, HEX HEAD CAP 1/2-13 X 1-3/4 GR5	14
34	1-654-010055-05	SCREW, HEX HEAD CAP 1/2-13 X 2 GR5	2
35	1-654-010036-05	SCREW, HEX HEAD CAP 3/8-16 X 1 GR5	3
36	1-654-010059-15	SCREW, HEX HEAD CAP 5/8-11 X 5 GR5	2
37	1-654-010024055	SCREW, MACH. #10-24 X 1-1/4	1
38	1-654-010141-04	SCREW, HEX SOC. HEAD CTSK 3/8-16 X 1 GR8	2
39	3-720-010035	SPRING	2
40	3-720-010042	SPRING, AIR BAG, 6-1/2	1
41	3-831-010172	TUBE, ROLLER SIDE	2
42	3-831-010182	TUBE, ROLLER TOP - 600 (20K)	1
43	140802	VALVE ASSEMBLY	REF
44	1-861-010032-14	WASHER, FLAT 1/2N	2
45	1-861-010032-15	WASHER, FLAT 1/2W	6
46	1-861-010032-10	WASHER, FLAT 3/8N	2
47	1-861-010032-18	WASHER, FLAT 5/8N	2

Winch Installation - 20K Air Tension/Release (BRADEN)

ITEM	PART NUMBER	DESCRIPTION	QTY.
48	1-861-010034-09	WASHER, SPLIT LOCK 1/4	1
49	3-873-010123	WINCH ASSEMBLY 20K (SEE PAGE 1-100)	1
50	202702-10-8S	ADAPTER	1
51	2062-10-8S	ADAPTER 90	1
52	3-120-010445	BRACKET, PRESSURE REGULATOR	1
53	905-54-107	BRAKE PROTECTION VALVE	1
54	1-297-010011-02	FITTING, AIR M/RUN TEE	2
55	1-297-010007-05	FITTING, AIR 1/4	1
56	1-297-010007-04	FITTING, AIR, 1/4 TUBE X X 1/8 NPT	5
57	1-297-010008-07	FITTING, AIR 90	1
58	1-297-010031-02	FITTING, BRASS PIPE	1
59	1-297-010019-05	FITTING, BRS PIPE HEX 3/8 X 1/4	1
60	1-297-010032-03	FITTING, AIR 90	1
61	1-297-010008-05	FITTING, AIR 90	2
62	1-297-010022-02	FITTING, AIR ANCHOR	1
63	1-297-010020-02	FITTING, BRASS PIPE	2
64	1-297-010018-03	FITTING, 1/4 TEE	1
65	55B61	FRAME UNION	REF
66	1-397-010301170	HOSE ASSEMBLY 1/2 X 170	1
67	1-397-010302172	HOSE ASSEMBLY 1/2 X 172	1
68	1-512-010005-05	NUT, HEX LOCK 3/8-16	1
69	1-833-010001	NYLON TUBING 1/4 OD	21
70	139552	VALVE AIR, 5WAY/2POS, 1/8 NPT	1
71	3-843-010039-02	VALVE AIR SHUTTLE 1/4	1
72	3-626-010004	REGULATOR, AIR PRESSURE	1

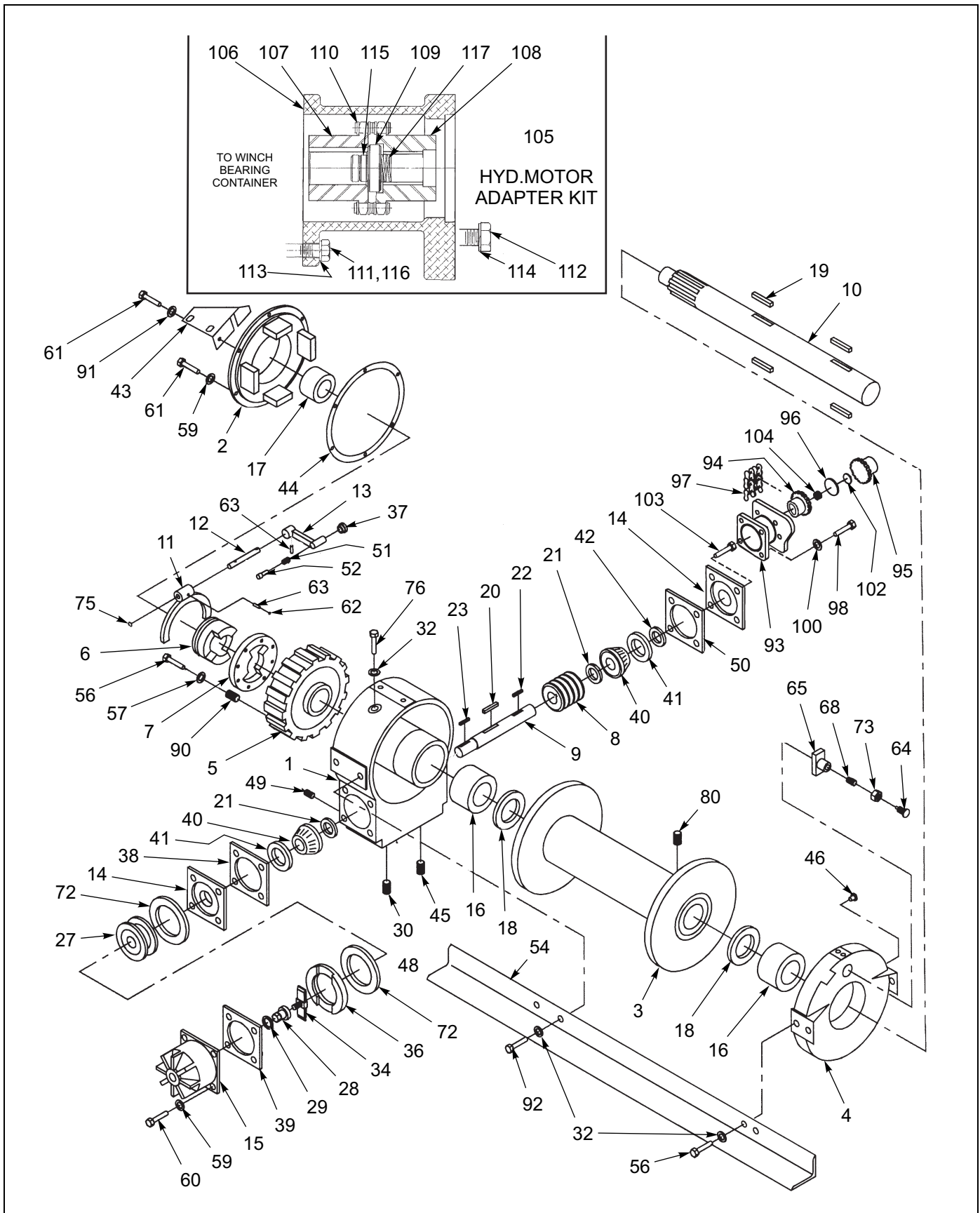


Figure 1-58: Winch Items - 20,000Lb. (BRADEN)

Winch Items - 20,000Lb. (BRADEN)

ITEM	PART NUMBER	REFERENCE NO.	DESCRIPTION	QTY.
	3-873-010123		WINCH 20,000# W/BOLT-ON ANGLES	
1	81078	81078	WORM HOUSING ASSEMBLY	1
2	106956	81082	COVER ASSEMBLY WORM HOUSING	1
3	-----	101142	DRUM CABLE	1
4	81077	81077	LEG ASSEMBLY BEARING	1
5	11434	11434	WORM, GEAR RIGHT	1
6	11421	11421	CLUTCH, SLIDING	1
7	11419	11419	DRIVE, CLUTCH	1
8	154166	11404	WORM RIGHT	1
9	-----	11405	SHAFT, WORM	1
10	139479	11414	SHAFT, CABLE DRUM	1
11	11440	11440	FORK SHIFTER	1
12	11441	11441	SHAFT SHIFTER	1
13	26976	26976	HANDLE SHIFTER	1
14	124549	11427	CONTAINER BEARING	2
15	-----	11445	COVER WORM BRAKE	1
16	18035	18035	BUSHING	2
17	11425	11425	BUSHING	1
18	11420	11420	RING, RETAINING	2
19	163472	22055	DRUM, KEY CABLE	4
20	11402	11402	KEY, WORM	1
21	11407	11407	SPACER, WORM	2
22	23367	23367	KEY, SPROCKET	1
23	10078	10078	KEY, ROTOR	1
27	81080	81080	ROTOR ASSEMBLY, BRAKE	1
28	11599	11599	ADJUSTING NUT, WORM BRAKE	1
29	12465	12465	O-RING	1
30	-----	19014	PLUG, FILLER	1
32	-----	11026	WASHER, LOCK	10
34	81081	81081	SPRING ASSEMBLY, SAFETY BRAKE	1
36	11431	11431	PLATE, PRESSURE	1
37	18022	18022	KNOB, SHIFTER	1
38	11429	11429	GASKET	4
39	11446	11446	GASKET	2
40	18033	18033	BEARING CONE	2
41	18034	18034	BEARING CUP	2
42	12073	12073	SEAL GREASE	1
43	12783	12783	BRACKET SHIFTER	1
44	11411	11411	COVER GASKET HOUSING	1
45	19045	19045	PLUG DRAIN	1
46	18047	18047	FITTING GREASE	1
48	-----	22775	PLUG VENT	1
49	-----	18009	PLUG LEVEL	1
50	11430	11430	GASKET	4
51	11310	11310	SPRING SHIFTER KNOB	1
52	11309	11309	STEM SHIFTER KNOB	1
54	-----	28942	ANGLE FRONT BASE	1
55	-----	28943	ANGLE REAR BASE (NOT SHOWN)	1

Winch Items - 20,000Lb. (BRADEN)

ITEM	PART NUMBER	REFERENCE NO.	DESCRIPTION	QTY.
56	-----	13938	CAPSCREW	16
57	-----	12781	WASHER, LOCK	8
58	-----	21044	CAPSCREW	4
59	-----	11025	WASHER, LOCK	3
60	-----	22695	CAPSCREW	4
61	-----	21964	CAPSCREW	6
62	12146	12146	PLUG, EXPANSION	A/R
63	13028	13028	ROLLPIN	A/R
64	11398	11398	SCREW, ADJUSTING	1
65	88005	88005	SHOE ASSEMBLY DRAG BRAKE	1
68	18002	18002	SHOE ASSEMBLY DRAG BRAKE	1
72	11426	11426	DISC, FRICTION	2
73	11791	11791	NUT, JAM	1
75	12767	12767	PLUG, EXPANSION	A/R
76	-----	22729	CAPSCREW	2
77	-----	23245	SAE PLATE-AMU7-16F (NOT SHOWN)	1
78	-----	23310	PLATE, WARNING (NOT SHOWN)	1
79	-----	11842	SCREW, DRIVE (NOT SHOWN)	4
80	139478	12228	SCREW, SET	1
90	-----	11435	INSERT THREAD	8
91	-----	11014	LOCKWASHER	1
92	-----	22697	CAPSCREW (NOT SHOWN)	5
93	23144	23144	ADAPTER - MOTOR	1
94	23081	23081	COUPLING HALF-WINCH	1
95	-----	23142	COUPLING HALF-MOTOR	1
96	23078	23078	SPACER - CONSTANT	1
97	13424	13424	ROLLER, CHAIN	1
98	-----	22704	CAPSCREW	4
99	-----	13413	CAPSCREW (NOT SHOWN)	4
100	-----	18003	LOCKWASHER	4
101	-----	11026	LOCKWASHER (NOT SHOWN)	4
102	-----	23183	SPACER - VARIABLE	2
103	-----	22703	CAPSCREW	4
104	-----	23353	SPRING - SPACER	1
105	61344	61344	HYD MOTOR ADY. KIT, 20,000# WINCH (ITEMS 106-117)	1
106	23144	23144	ADAPTER, MOTOR	1
107	23081	23081	COUPLING HALF, WINCH	1
108	110448	23142	COUPLING HALF, MOTOR	1
109	23078	23078	SPACER, CONSTANT	1
110	13424	13424	CHAIN ROLLER	1
111	-----	-----	CAPSCREW	4
112	-----	-----	CAPSCREW	4
113	-----	27152	LOCKWASHER	4
114	-----	11026	LOCKWASHER	4
115	110451	23183	SPACER	1
116	-----	-----	CAPSCREW	4
117	110452	23353	SPRING SPACER	1

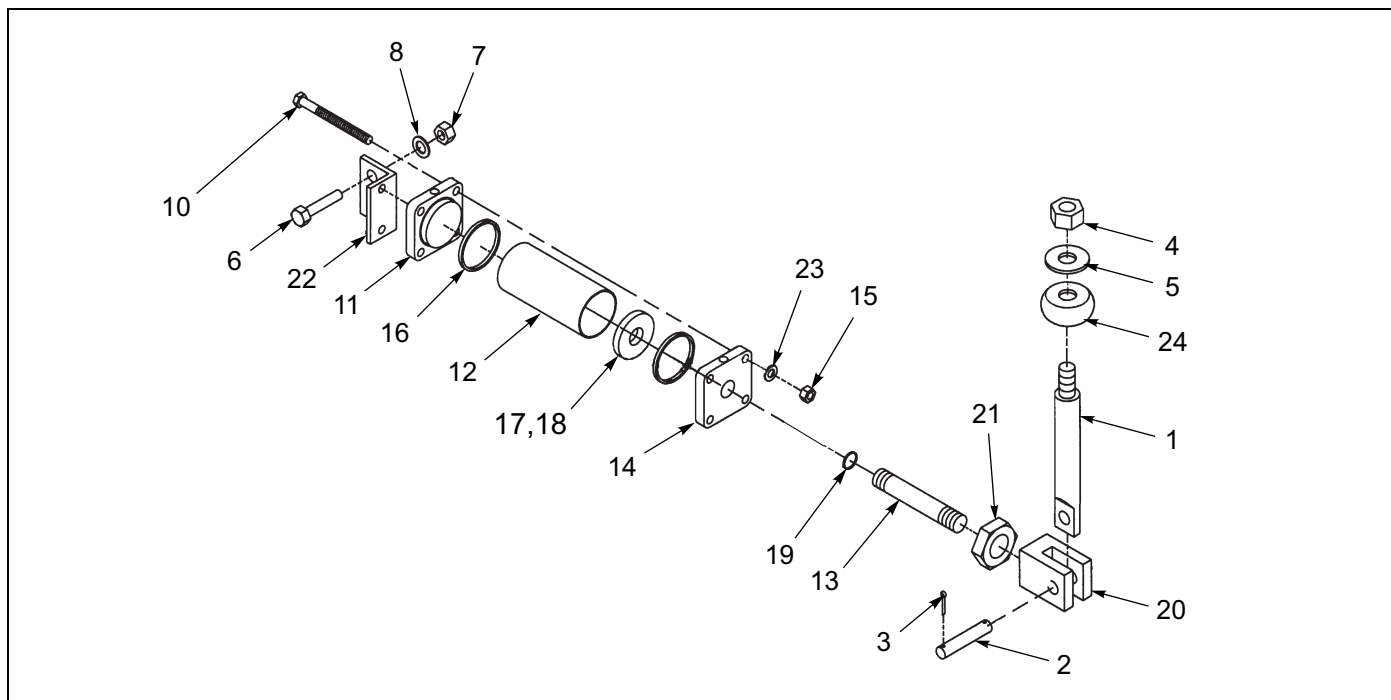


Figure 1-59: Winch - Air Shift Cylinder

Winch - Air Shift Cylinder

ITEM	PART NUMBER	REFERENCE NO.	DESCRIPTION	QTY.
	107368	-----	CYLINDER, AIR W/ BRACKET (ITEMS 2, 3 & 6-23)	
1	107369	-----	LEVER WINCH FREE SPOOL	1
2	-----	1976	PIN	1
3	-----	2356	COTTER PIN	1
4	1-512-010007-05	1-512-010007-05	NUT, HEX 1/4-20 GRB	1
5	1-861-010034-09	1-861-010034-09	WASHER, SPLIT LOCK 1/4	1
6	1-654-010055-01	1-654-010055-01	SCREW, HEX HEAD CAP 1/2-13 X 1 GR5	2
7	1-512-010005-09	1-512-010005-09	NUT, HEX LOCK 1/2-13 GRB	2
8	1-861-010032-14	1-861-010032-14	WASHER, FLAT 1/2	2
9	C2001	C2001	CYLINDER (ITEMS 10-23)	1
10	-----	1128	CAPSCREW49	4
11	-----	1272	REAR COVER PLATE	1
12	-----	1277	TUBE	1
13	-----	2388	PISTON ROD	1
14	-----	1271	FRONT COVER PLATE	1
15	-----	1723	NUT	4
16	-----	1274	BACK-UP-RING	2
17	-----	1275	O-RING	1
18	-----	1273	PISTON	1
19	-----	1276	O-RING	1
20	1974	1974	CLEVIS	1
21	-----	1224	NUT	1
22	2389	2389	BRACKET	1
23	-----	1766	LOCKWASHER	4
24	3-150-010186	3-150-010186	BUSHING WINCH REMOTE LEVER	1
	-----	3109	O-RING KIT FOR CYLINDER	

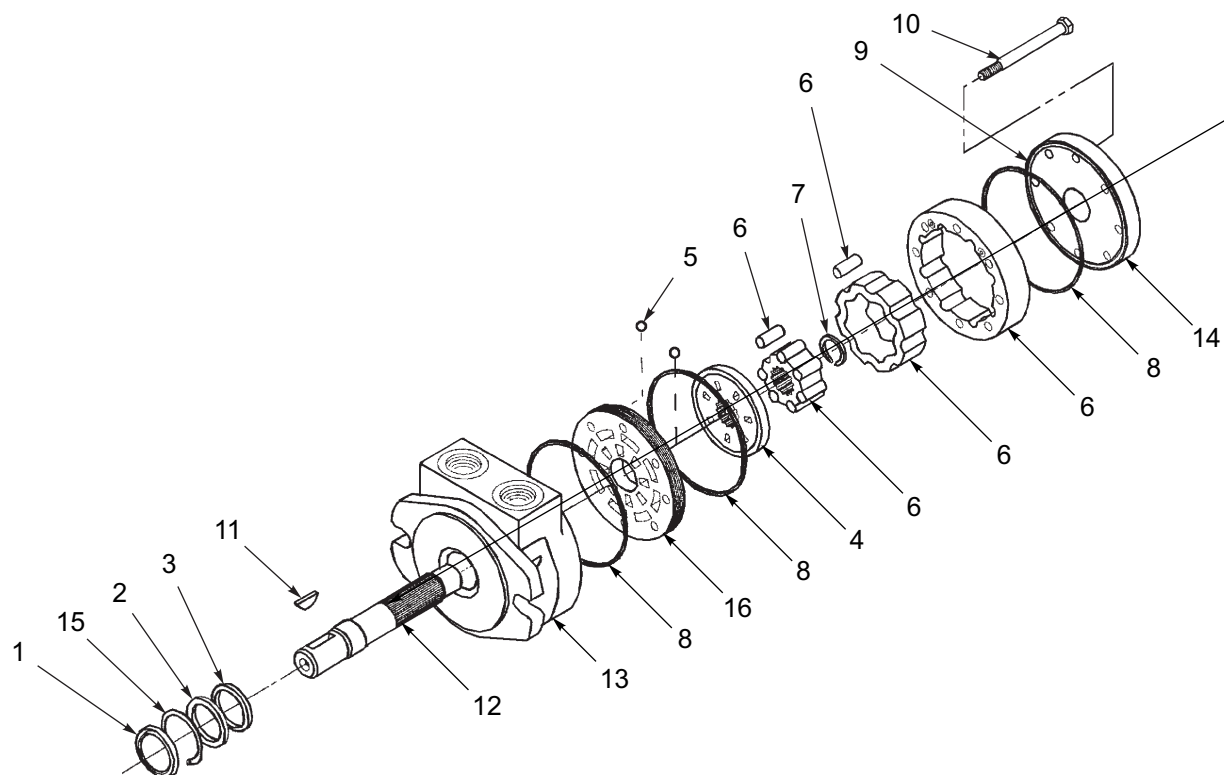


Figure 1-60: Winch - Motor Assembly

Winch - Motor Assembly

ITEM	PART NUMBER	REFERENCE NO.	DESCRIPTION	QTY.
	3-481-010006	-----	MOTOR, HYDRAULIC - 12K WINCH	
	3-481-010006FI	-----	FIELD INSTALLATION KIT - 12K WINCH	
	3-481-010007	-----	MOTOR, HYDRAULIC - 20K WINCH	
	3-481-010007FI	-----	FIELD INSTALLATION KIT - 20K WINCH	
1	-----	2183	SEAL DUST	1
2	-----	2177	BACK-UP RING	1
3	-----	2175	SEAL LIP	1
4	-----	1644	ROTARY VALVE	1
5	-----	1021	CHECK VALVE BALL	2
6	-----	1004-6	IGR ASSEMBLY - 20K WINCH	1
	-----	1004-3	IGR ASSEMBLY - 12K WINCH	1
7	-----	1296	SNAP RING	1
8	1046	1046	SQUARE RING SEAL	3
9	-----	1019-4	PLUG VENT W/O-RING	1
10	-----	1014-4	BOLTS HEX - 20K WINCH	8
	-----	1114-5	BOLTS HEX - 12K WINCH	8
11	-----	1655	KEY WOODRUFF	1
12	-----	2265-6	SHAFTFOR - 20K WINCH	1
	-----	2109-3	SHAFTFOR - 12K WINCH	1
13	-----	M110AB-4	BODY/BEARING ASSEMBLY - 20K WINCH	1
	-----	PA-2328-2	BODY/BEARING ASSEMBLY - 12K WINCH	1
14	-----	M110C-1	COVER/BEARING ASSEMBLY	1
15	-----	2180	SNAP RING SHAFT	1
16	-----	1865	COMMUTATOR PLATE	1
	2263	2263	SEAL KIT BODY	1
	-----	2480	SEAL KIT BODY VITON	1

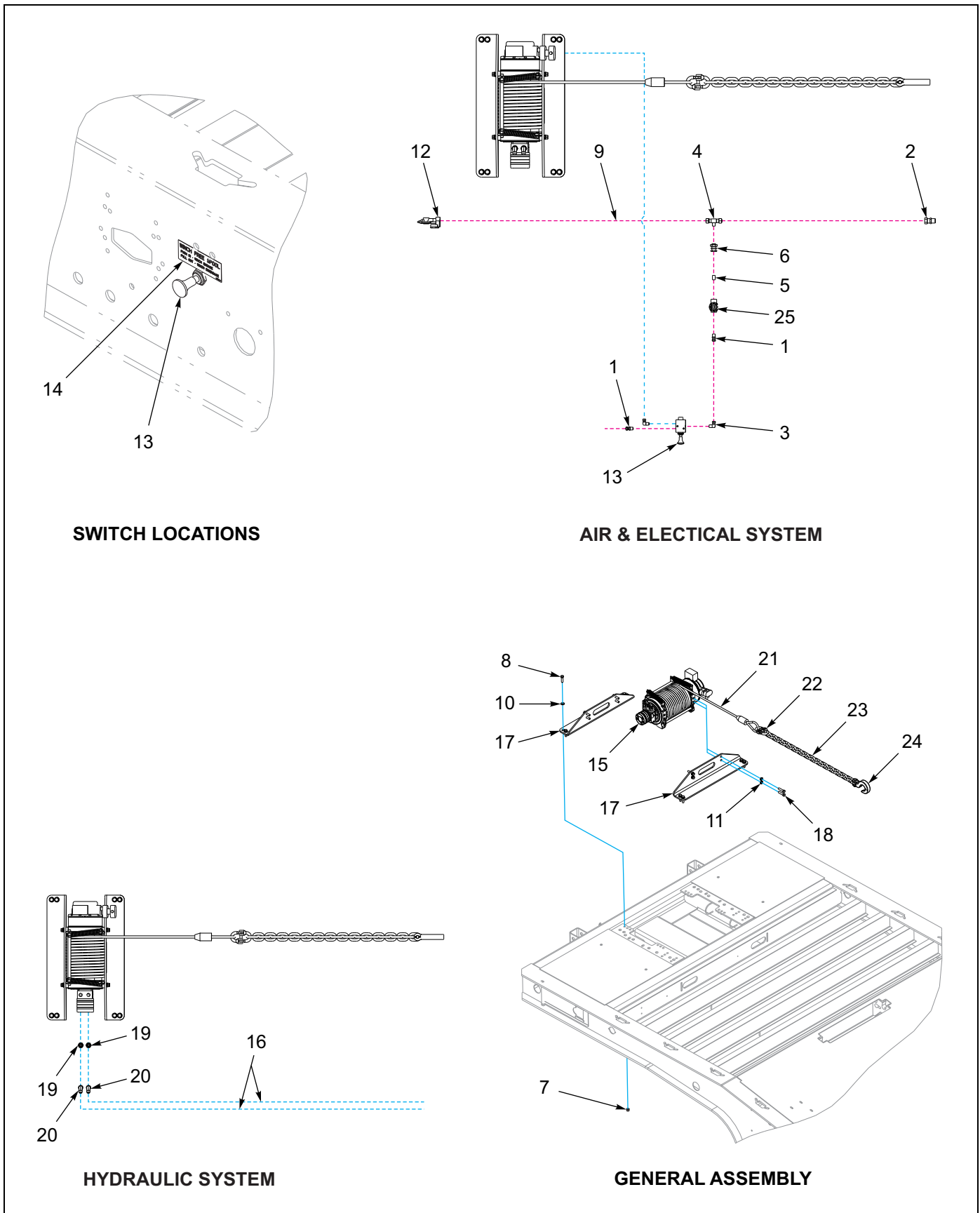


Figure 1-61: Winch Installation - 12K (WARN)

Winch Installation - 12K (WARN)

ITEM	PART NUMBER	DESCRIPTION	QTY.
	196817	WINCH INSTL 12K WARN 900	
1	1-297-010007-05	FITTING, AIR, 1/4TUBEX1/4NPT	2
2	1-297-010007-15	FITTING AIR 1/2 TUBE X 3/8NPT	1
3	1-297-010008-07	FITTING AIR 90 1/4TUBEX1/4NPT	2
4	1-297-010015-09	FITTING,AIR,BR TEE 1/2T-1/4P	1
5	1-297-010020-02	FITTING,BRS PIPE,CL NIP 1/4	1
6	1-297-010022-02	FITTING,AIR ANCHR CPLG,1/4NPT	1
7	1-512-010005-09	NUT,HEX,SLFLKG, 1/2-13 GRB	8
8	1-654-010055-04	SCREW,HEX CAP,1/2-13UNCX1-3/4	8
9	1-833-010003	TUBING NYLON 1/2 OD	20
10	1-861-010032-14	WASHER, FLAT 1/2" N ZP/CD	8
11	1-861-010034-13	WASHER, LKG HLCL SPR, 1/2	8
12	108801	GLAD HAND-RED-AIR	1
13	134657	VALVE AIR 3WAY/2POS 1/4NPT	1
14	135184	DECAL, WINCH FREE SPOOL	1
15	166421	WINCH 12M WARN W/LW&RMTC	1
16	174188	HOSE ASSY 1/2X182 SAE37 STR90	2
17	196818	BRACKET FRONT 12K WARN	2
18	198996	SCREW M12-1.75X50 HCS8.8ZP FUL	8
19	202702-10-8S	ADAPTER, #10 O-RING #8 TUBE	2
20	2071-8-8S	ADAPTER90 #8 FLR SWIVEL #8JIC	2
21	3-155-010017-4	CABLE, 1/2 X 85' LENGTH	1
22	3-174-010038	CHAIN LINK CONNECTING 1/2	1
23	3-174-010039036	CHAIN 1/2X36" GRD 7 21LINKS	1
24	7HCGHT500	HOOK CLEVIS GRAB 1/2 GR70	1
25	905-54-107	BRAKE PROTECTION VALVE	1

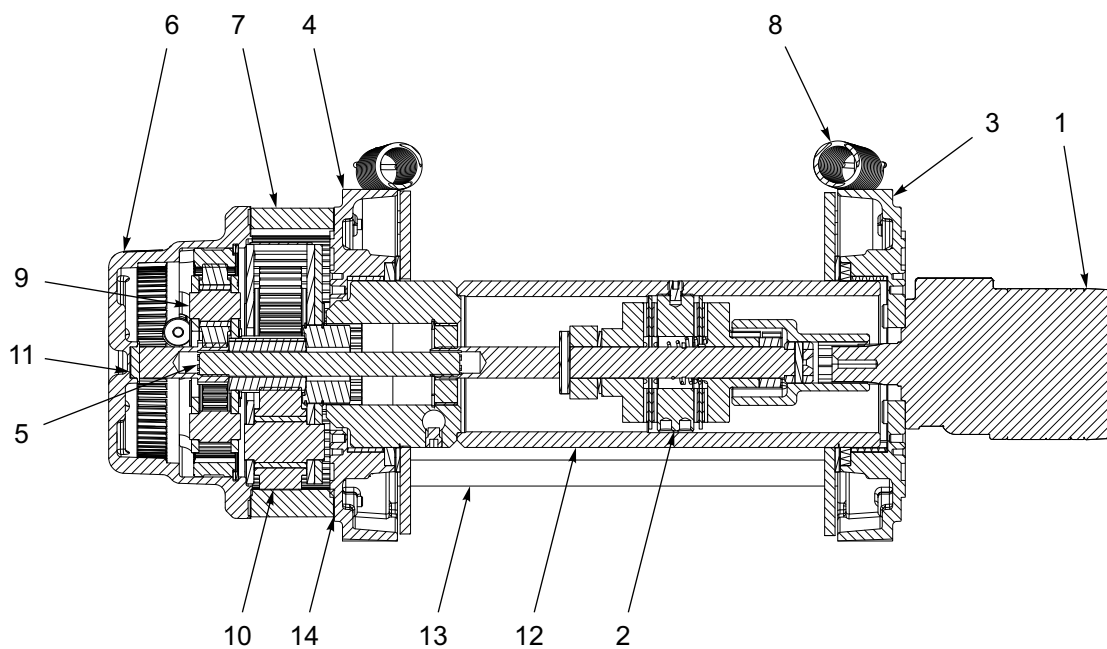


Figure 1-62: Winch Items - 12K (WARN)

Winch Items - 12K (WARN)

ITEM	PART NUMBER	DESCRIPTION	QTY.
	166421	WINCH, 12M WARN W/LW & RMTC	
1	194305	MOTOR HYD 5.0CL	1
2	194306	BRAKE ASSEMBLY	1
3	194307	DRUM SUPPORT, MOTOR	1
4	194308	DRUM SUPPORT, GEAR END	1
5	194309	DRIVE SHAFT, HEX	1
6	194310	END HSG ASSY AIR	1
7	194117	GEAR RING	1
8	194118	SPRING EXTENSION, TENSIONER	2
9	194119	CARRIER, STAGE 2 M12000	1
10	194120	CARRIER, STAGE 3 4340	1
11	194121	GEAR, 15T	1
12	194122	DRUM ASSEMBLY	1
13	194123	TIE ROD	3
14	194124	GASKET, RING GEAR	2

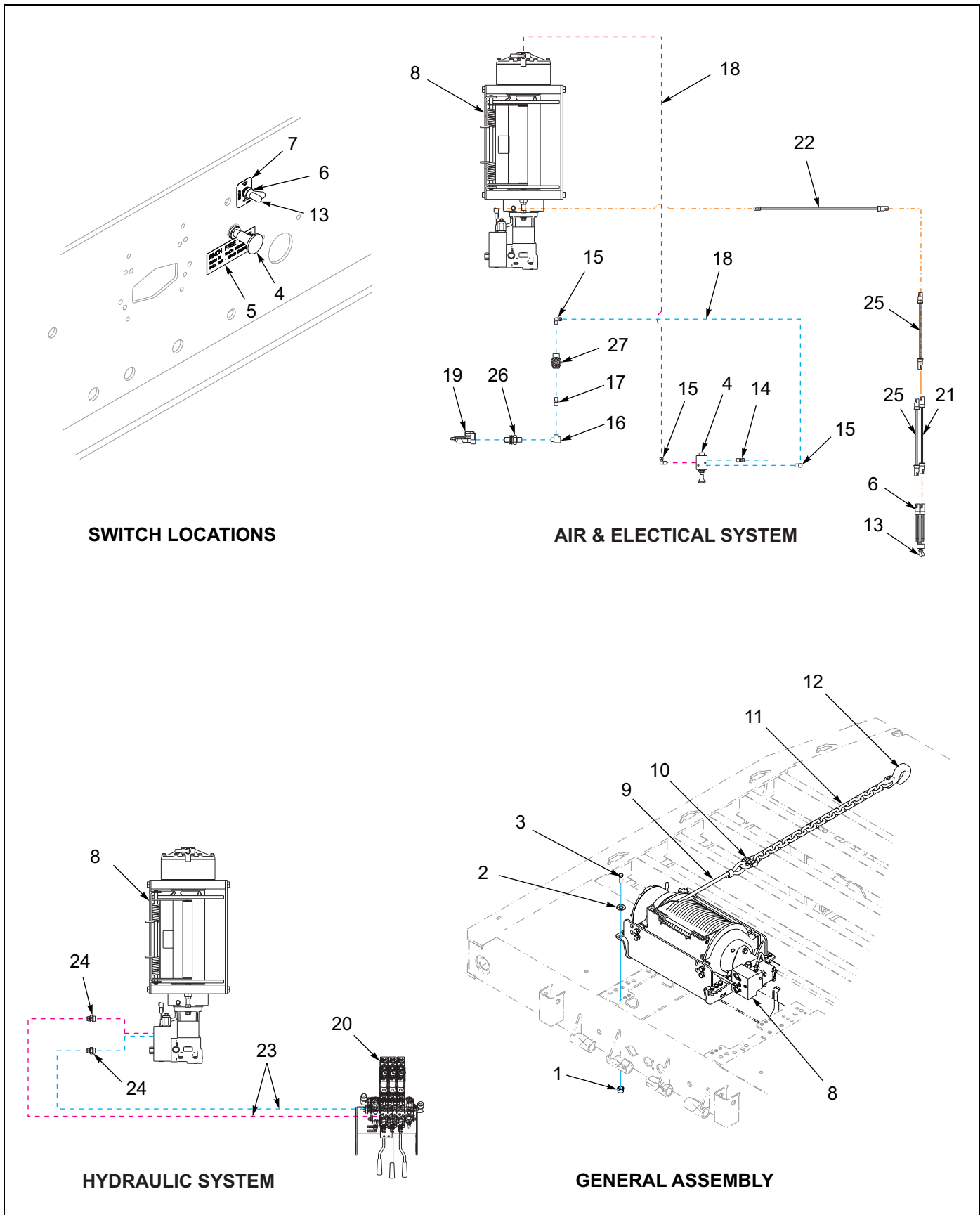


Figure 1-63: Winch Installation - 20K 2 Speed (WARN)

Winch Installation - 20K 2 Speed (WARN)

ITEM	PART NUMBER	DESCRIPTION	QTY.
	178383	WINCH INSTL 20KWARN 2SP 900STD	
1	1-512-010002-09	NUT,HEX SLFLKG,1/2-13,GR C,ZP	12
2	1-861-010032-14	WASHER, FLAT 1/2" N ZP/CD	12
3	108439	SCREW HX CP 1/2-13UNCX1-1/2G8	12
4	134657	VALVE AIR 3WAY/2POS 1/4NPT	1
5	135184	DECAL, WINCH FREE SPOOL	
6	150117	SWITCH ASSY LIGHT GROTE	REF
7	174043	DECAL, WINCH, HI/LO	1
8	174553	WINCH ASSY WARN 20K 2 SPEED	1
9	3-155-010018-6	CABLE 5/8 W/LOOP 85FT	REF
10	3-174-010038	CHAIN LINK CONNECTING 1/2	1
11	3-174-010039036	CHAIN 1/2X36" GRD 7 21LINKS	1
12	7HCGHT500	HOOK CLEVIS GRAB 1/2 GR70	1
13	81264	RUBBER BOOT FOR ELECT SWITCH	REF
14	1-297-010007-05	FITTING, AIR, 1/4TUBEX1/4NPT	1
15	1-297-010008-07	FITTING AIR 90 1/4TUBEX1/4NPT	3
16	1-297-010018-03	FITTING,3/8 BRASS PIPE,ST TEE	REF
17	1-297-010019-05	FITTING,BRS PIPE,HX 3/8X1/4	1
18	1-833-010001	TUBING NYLON 1/4 OD	34
19	108801	GLAD HAND-RED-AIR	REF
20	139525	VALVE ASSY 3-SPOOL 400	REF
21	150111	HARNESS 300 IN MALE.FEMALE	1
22	164053	HARNESS,102"BRANCH,WORK LIGHT	1
23	174188	HOSE ASSY 1/2X182 SAE37 STR90	2
24	202702-10-8S	ADAPTER, #10 O-RING #8 TUBE	2
25	3-368-010252	HARNESS ASSY BKHD LIGHT EXT	2
26	55B61	FRAME UNION	REF
27	905-54-107	BRAKE PROTECTION VALVE	1

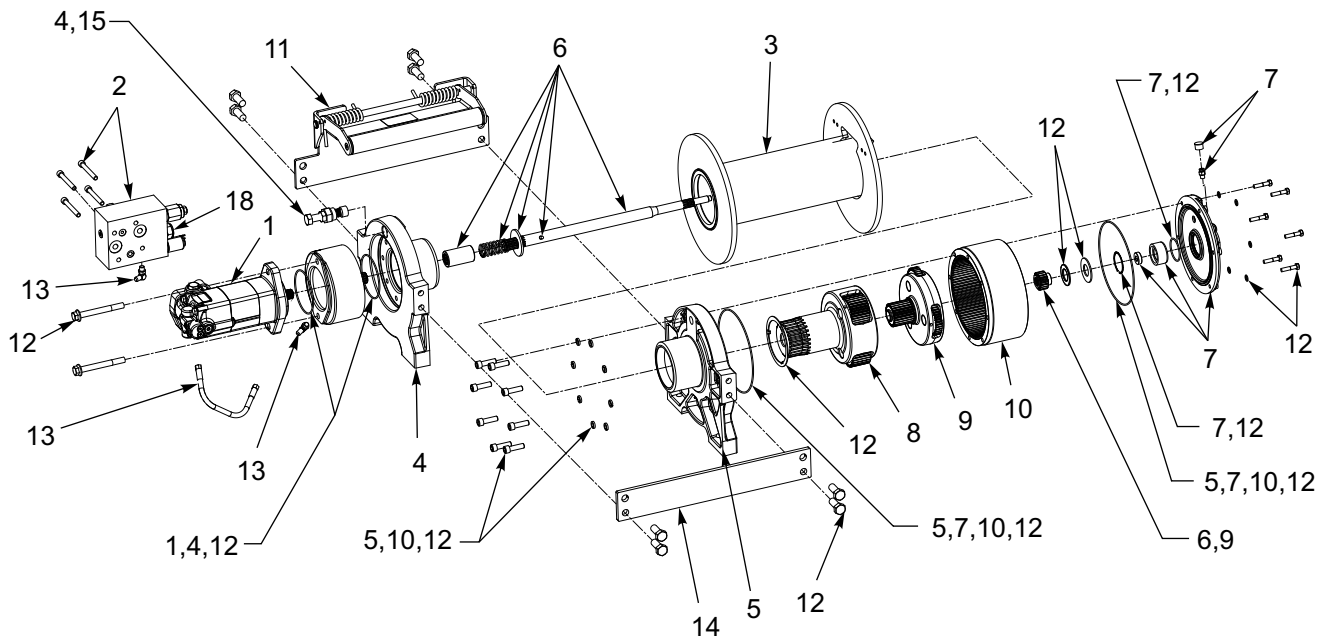


Figure 1-64: Winch Items - 20K 2 Speed (WARN)

Winch Items - 20K 2 Speed (WARN)

ITEM	PART NUMBER	DESCRIPTION	QTY.
	167521	WINCH, 20K WARN 2 SPEED	
1	178718	SERVICE KIT, MOTOR HYD 11.9 CI-SPD	1
2	178715	SERVICE KIT, MANIFOLD HYDRAULIC	1
3	162208	SERVICE KIT, DRUM ASSEMBLY 20K LONG	1
4	178999	SERVICE KIT, DRUM RETARDER DRUM SUPPORT	1
5	162210	SERVICE KIT, DRUM SUPPORT GEAR END	1
6	162211	SERVICE KIT, DRIVESHAFT LONG	1
7	162941	SERVICE KIT, END HOUSING ASSEMBLY AIR	1
8	162213	SERVICE KIT, CARRIER STAGE 2-6.0-4.75	1
9	162214	SERVICE KIT, STAGE 1-6.0-4.75	1
10	162215	SERVICE KIT, RING GEAR	1
11	162216	SERVICE KIT, TENSIONER LONG	1
12	179000	SERVICE KIT, HARDWARE SEAL	1
13	162218	SERVICE KIT, HOSE HYDRAULIC	1
14	162219	SERVICE KIT, TIE PLATE LONG	1
15	179001	SERVICE KIT, DRUM RETARDER	1
16	162220	SERVICE KIT, WIRE ROPE ASSEMBLY 9/16 X 245'	1
17	162207	SERVICE KIT, BRAKE ASSEMBLY	1
18	199104	SOLENOID FOR 2SP WARN, 20K-30K	1

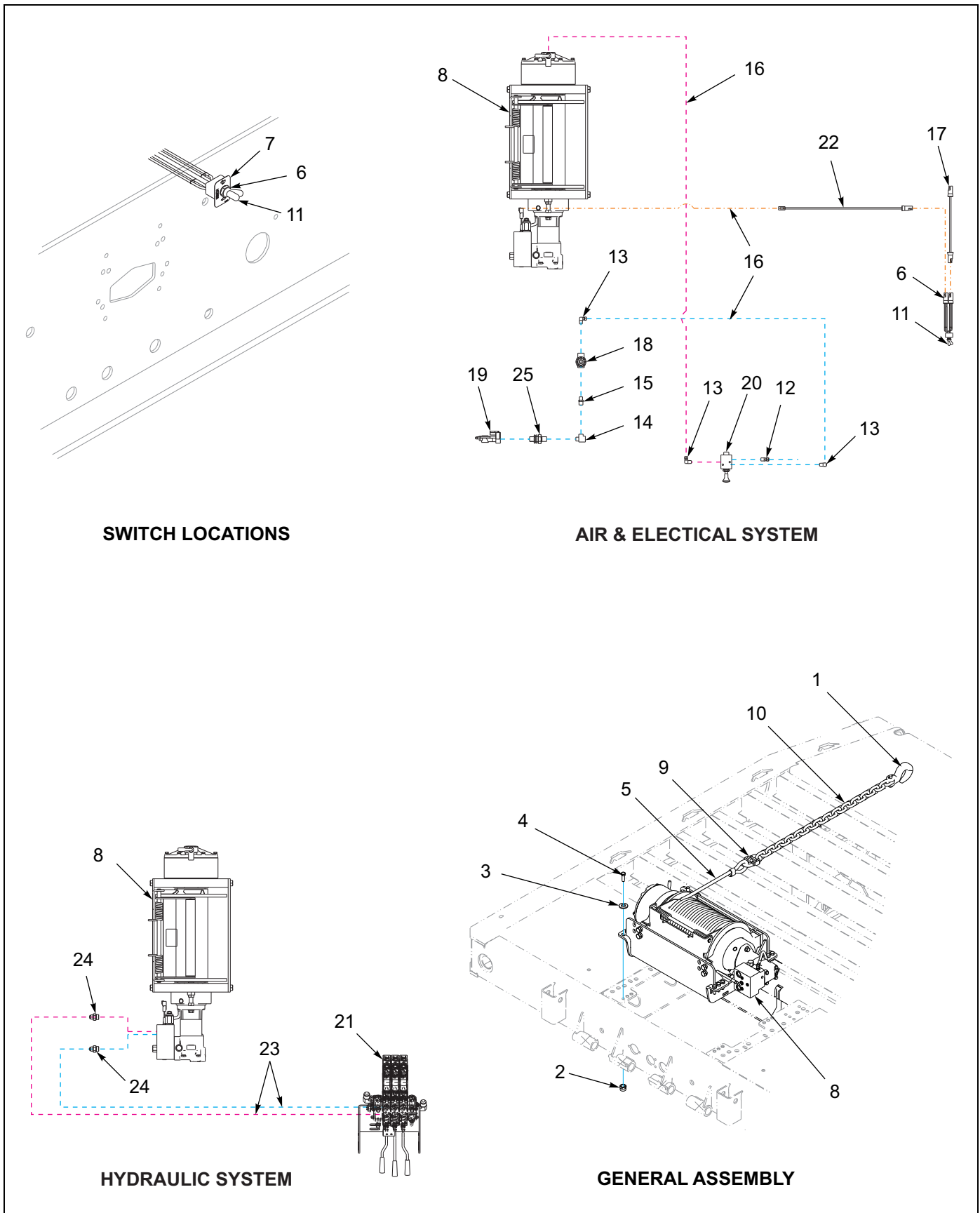


Figure 1-65: Winch Installation - 30K 2 Speed (WARN)

Winch Installation - 30K 2 Speed (WARN)

ITEM	PART NUMBER	DESCRIPTION	QTY.
	172878	WINCH INSTL 30K WARN 2 SPD AIR	
1	1-382-010035-06	HOOK,CLEVIS GRAB 5/8 GRD80	1
2	1-512-010002-09	NUT,HEX SLFLKG,1/2-13,GR C,ZP	12
3	1-861-010032-14	WASHER, FLAT 1/2" N ZP/CD	12
4	108439	SCREW HX CP 1/2-13UNCX1-1/2G8	12
5	132833	CABLE ASSY 5/8X85FLEX-X9	REF
6	150117	SWITCH ASSY LIGHT GROTE	REF
7	174043	DECAL, WINCH, HI/LO	1
8	174552	WINCH ASSY WARN 30K 2 SPEED	1
9	3-174-010059	CHAIN LINK CONNECTING 5/8	1
10	3-174-010060036	CHAIN 5/8X36IN GRADE 80	1
11	81264	RUBBER BOOT FOR ELECT SWITCH	REF
12	1-297-010007-05	FITTING, AIR, 1/4TUBEX1/4NPT	1
13	1-297-010008-07	FITTING AIR 90 1/4TUBEX1/4NPT	3
14	1-297-010018-03	FITTING,3/8 BRASS PIPE,ST TEE	REF
15	1-297-010019-05	FITTING,BRS PIPE,HX 3/8X1/4	1
16	1-833-010001	TUBING NYLON 1/4 OD	34
17	3-368-010252	HARNESS ASSY BKHD LIGHT EXT	1
18	905-54-107	BRAKE PROTECTION VALVE	1
19	108801	GLAD HAND-RED-AIR	REF
20	134657	VALVE AIR 3WAY/2POS 1/4NPT	1
21	139525	VALVE ASSY 3-SPOOL 400	REF
22	164053	HARNESS,102"BRANCH,WORK LIGHT	1
23	174188	HOSE ASSY 1/2X182 SAE37 STR90	2
24	202702-10-8S	ADAPTER, #10 O-RING #8 TUBE	2
25	55B61	FRAME UNION	REF

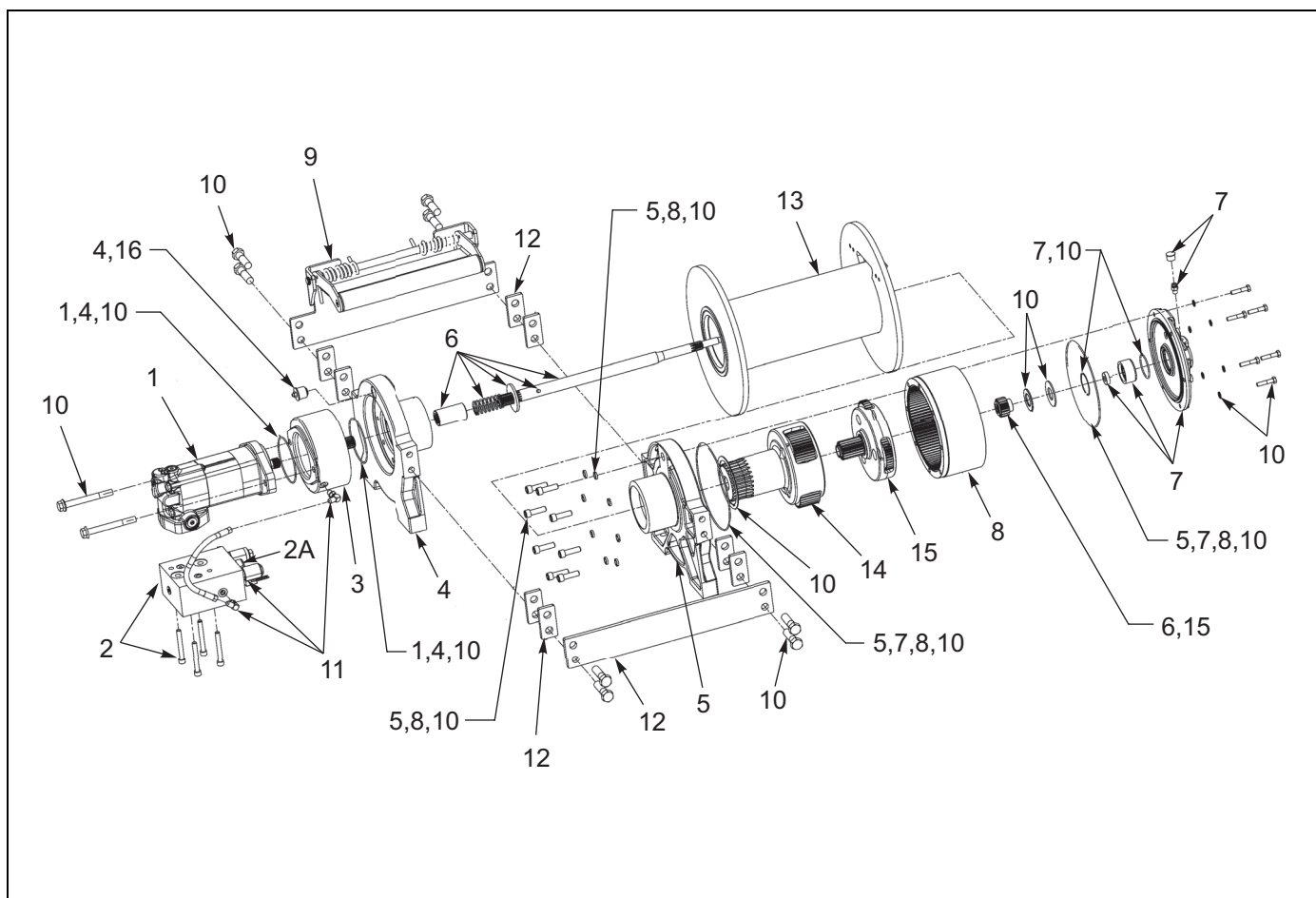


Figure 1-66: Winch Items - 30K 2 Speed (WARN)

Winch Items - 30K 2 Speed (WARN)

ITEM	PART NUMBER	DESCRIPTION	QTY.
	172877	WINCH, 30K WARN AIR KICKOUT	
1	178714	SERVICE KIT - MOTOR HYDRAULIC 14.9CI	1
2	178715	SERVICE KIT - MANIFOLD HYDRAULIC	1
2A	199104	SOLENOID FOR 2SP WARN, 20K-30K	1
3	162207	SERVICE KIT - BRAKE ASSEMBLY	1
4	178716	SERVICE KIT - DRUM SUPPORT, MOTOR END RETARDER	1
5	162210	SERVICE KIT - DRUM SUPPORT, GEAR END	1
6	162211	SERVICE KIT - DRIVE SHAFT, LONG	1
7	162941	SERVICE KIT - END HSG ASSY AIR	1
8	162215	SERVICE KIT - RING GEAR	1
9	162216	SERVICE KIT - TENSIONER LONG	1
10	162217	SERVICE KIT - HARDWARE SEAL	1
11	162218	SERVICE KIT - HOSE HYDRAULIC	1
12	162219	SERVICE KIT - TIE PLATE LONG	1
13	162942	SERVICE KIT - DRUM ASSEMBLY 30K LONG	1
14	162943	SERVICE KIT - CARRIER, STAGE 2 6.0-6.0	1
15	162944	SERVICE KIT - CARRIER, STAGE 1 6.0-6.0	1
16	178717	SERVICE KIT - EXPANSION PLUG 1" RUBBER	1
17	162945	WIRE ROPE ASSEMBLY 5/8 EIPS X 245 FT (NOT SHOWN)	1

Landing Gear

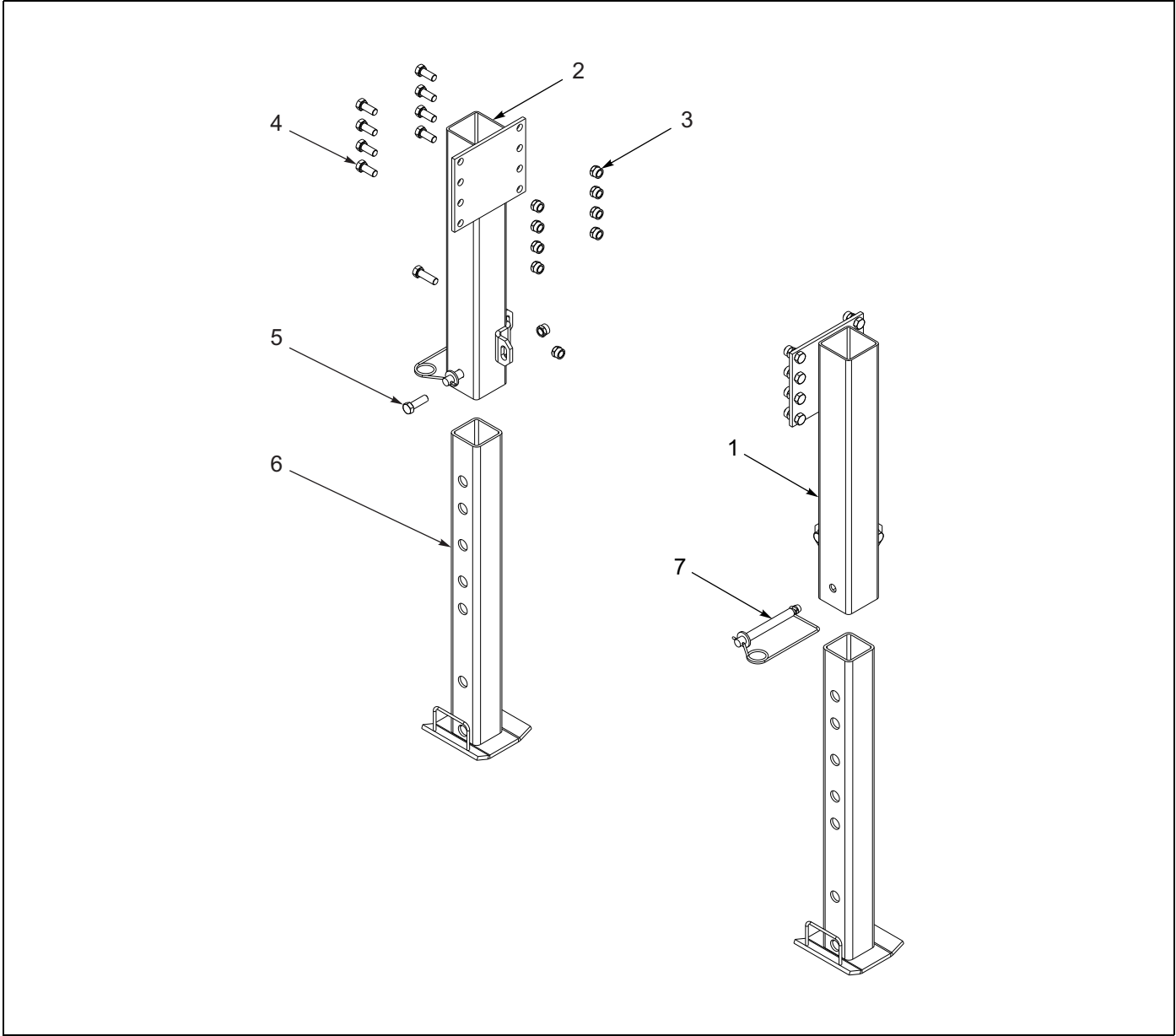


Figure 1-67: Landing Gear Installation - “Bolt On” Park Stand

Landing Gear Installation - “Bolt On” Park Stand

ITEM	PART NUMBER	DESCRIPTION	QTY.
	104243	PARK STAND INSTALLATION, BOLT-ON	
1	112678	PARK STAND WELDMENT, LH FRONT PIN	1
2	112679	PARK STAND WELDMENT, RH FRONT PIN	1
3	1-512-010005-13	NUT, HEX LOCK 5/8-11 GRB	20
4	1-654-010059-03	SCREW, HEX HEAD CAP 5/8-11 X 1-1/2 GR5	16
5	1-654-010059-05	SCREW, HEX HEAD CAP 5/8-11 X 2 GR5	4
6	3-725-010058	STAND, PARK INSIDE WELDMENT	2
7	346SL	LOCK HITCH PIN	2

Landing Gear Installation - Jost 410

ITEM	PART NUMBER	DESCRIPTION	QTY.
	117558	LANDING GEAR INSTALLATION	
1	1-512-010005-05	NUT, HEX LOCK 3/8-16 GRB	4
2	1-512-010005-13	NUT, HEX LOCK 5/8-11 GRB	24
3	1-654-010051-05	SCREW, HEX HEAD CAP 3/8-16 X 1 GR5	1
4	1-654-010051-10	SCREW, HEX HEAD CAP 3/8-16 X 2-1/4 GR5	3
5	1-654-010059-03	SCREW, HEX HEAD CAP 5/8-11 X 1-1/2 GR5	24
6	1-861-010032-11	WASHER, FLAT 3/8W	6
7	1-861-010032-19	WASHER, FLAT 5/8W	4
8	117559	CLIP, LANDING GEAR HANDLE	1
9	117561	CROSS-SHAFT LANDING GEAR	1
10	119949	HANDLE, CRANK 2 SPEED LANDING GEAR	1
11	139256	LANDING GEAR WELDMENT 2 SPEED (SEE PAGE 1-121)	1

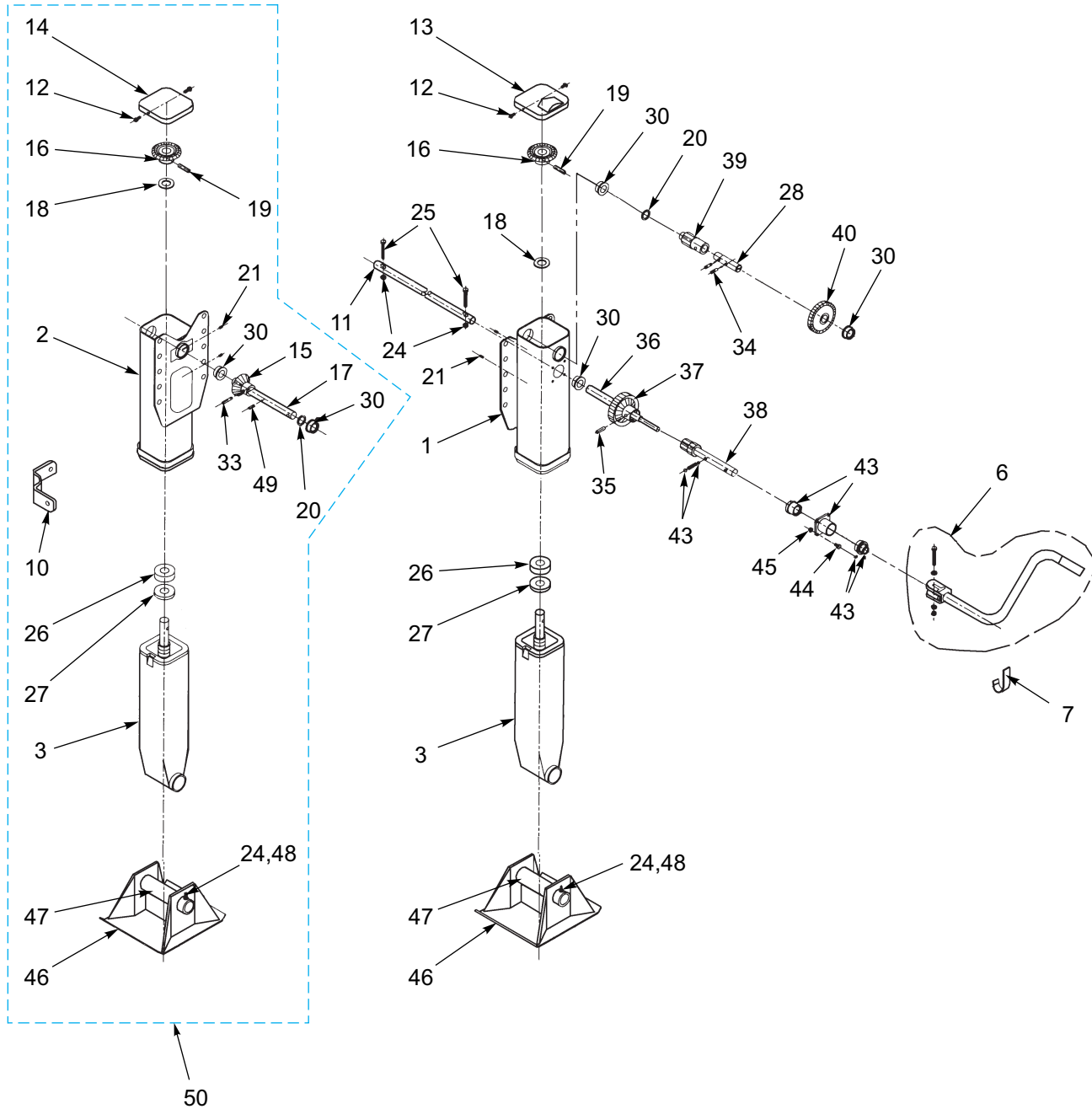


Figure 1-69: Landing Gear Installation - Jost #A401T19

Landing Gear Installation - Jost #A401T19

ITEM	PART NUMBER	REFERENCE NO.	DESCRIPTION	QTY.
	116800		LANDING GEAR JOST #A401T19	
1	----	D10201.3	OUTER HOUSING - 2 SPEED	1
2	----	D10116.3	OUTER HOUSING - 1 SPEED	1
3	----	C10140.3	INNER LEG ASSEMBLY - STANDARD	2
6	109161	----	CRANK 930 MODIFICATION	1
7	109711	B10261	CRANK HANGER	1
10	109712	C10108	BRACE LUG - W	2
11	----	B10066	INTERMEDIATE CROSS SHAFT	1
12	----	A10059.1	COVER SCREW	4
13	----	C10217	COVER - 2 SPEED	1
14	----	C10259	COVER - 1 SPEED	1
15	----	C10177	PINION GEAR	1
16	----	C10155	BEVEL GEAR	2
17	----	B10130	PINION SHAFT - 1 SPEED	1
18	----	A10102	THRUST WASHER	2
19	----	A10052.3	GROOVED PIN	2
20	----	A10218	SPACER WASHER	2
21	----	A10040	GREASE FITTING	4
23	----	C10209	STRUT BRACE (NOT SHOWN)	4
24	----	A10038.7	SELF LOCKING NUT	2
25	----	A10037.1	CROSS SHAFT BOLT - 3/8 X 2 GR5	2
26	----	A10033	THRUST BEARING	2
27	----	A10101	COLLAR	2
28	----	A10212	OUTPUT SHAFT	1
30	----	A10255	BUSHING	5
33	----	A10054.3	ROLL PIN 3/8 X 1-1/2	1
34	----	A10260.1	SPIRAL PIN	2
35	----	A10054.7	ROLL PIN - 3/8 X 1-3/4	1
36	----	B10236	OUTPUT CLUSTER SHAFT	1
37	----	C10234	OUTPUT CLUSTER GEAR	1
38	----	C10233	INPUT GEAR SHAFT	1
39	----	C10078	OUTPUT SPUR GEAR	1
40	----	C10085	INPUT SPUR GEAR	1
43	163502	B10229S	SHIFT HOUSING SERVICE KIT	1
44	----	A10230	SHIFT HOUSING BOLT	4
45	----	A10038.6	SELF LOCKING NUT	4
46	----	C10256	SHOE - 10 X 10 X 4-1/2	2
47	114983	B10036	SHOE AXLE	2
48	----	A10037.3	HEX HEAD BOLT	2
49	----	A10054.6	ROLL PIN - 1/4 X 1-1/4	1
50	137974	A401LT19	RH LANDING LEG ASSEMBLY	1

Air Digital Scales - Options

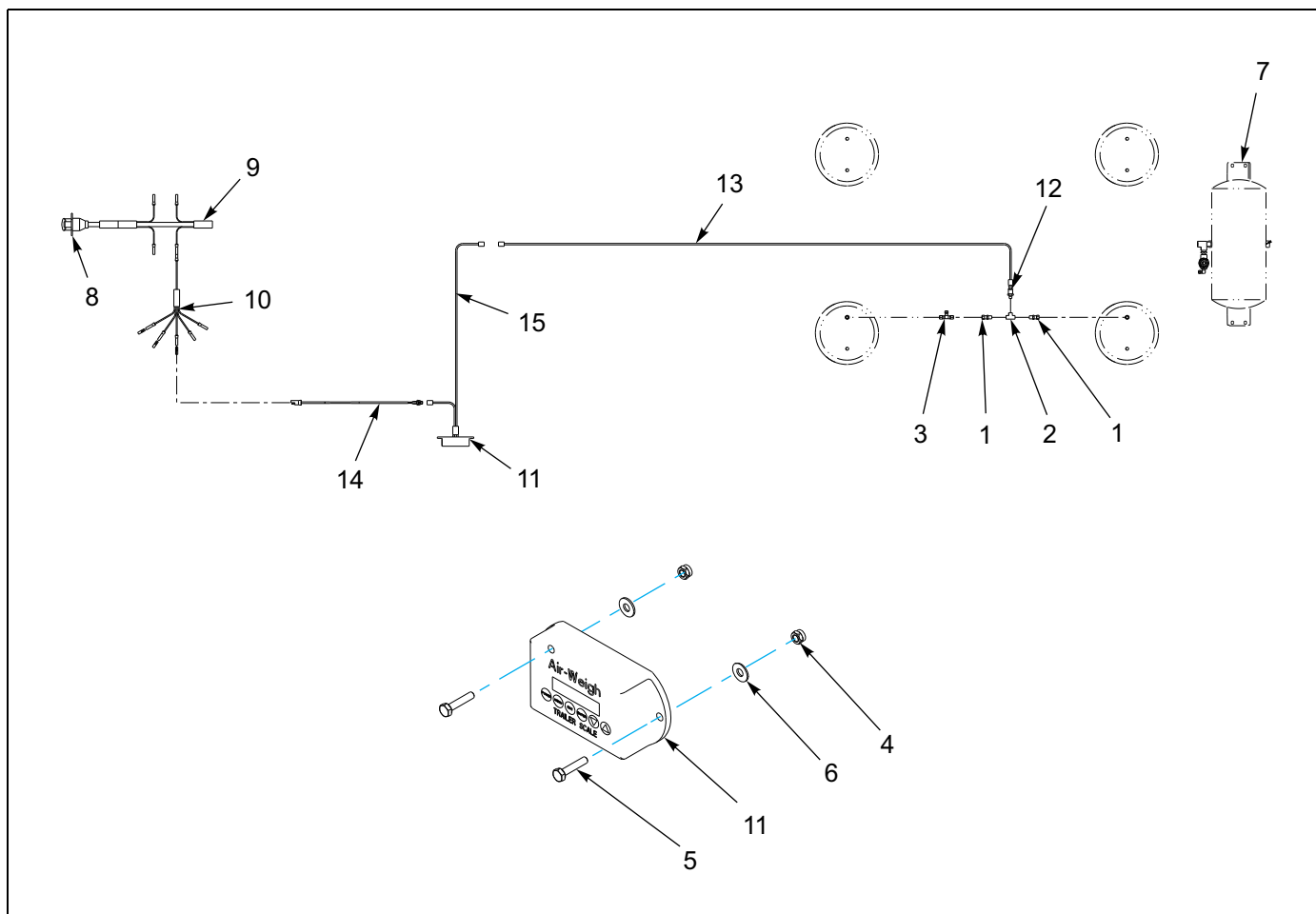


Figure 1-70: Air Digital Scale - Loadmaxx System

Air Digital Scale - Loadmaxx System

ITEM	PART NUMBER	DESCRIPTION	QTY.
	166821	SCALE INSTALLATION, LOADMAXX SYSTEM	
1	1-297-010007-11	FITTING AIR	2
2	1-297-010009-02	FITTING, AIR PIPE TEE	1
3	1-297-010010-04	FITTING AIR UNION TEE	REF
4	1-512-010005-01	NUT HEX LOCK 1/4-20 GRB	REF
5	1-654-010047-07	SCREW, HEX HEAD CAP 1/4-20 X 1-1/4 GR5	REF
6	1-861-010032-07	WASHER, FLAT 1/4	REF
7	----	SUSPENSION, AIR RLU A/R	REF
8	143100	HARNESS, 7 WAY RECEPTACLE	REF
9	143101	HARNESS, FRONT MAIN	REF
10	150093	HARNESS, 5 AUXILIARY BRANCHES	REF
11	172437	SCALE, AIR DIGITAL MODIFIED (ITEMS 12-15)	1
12	149543	SENSOR ASSEMBLY, 5V 3/8" BRASS	1
13	166001	CABLE, AW5800, 2 PART SENSOR 50'	1
14	166002	CABLE, AW5800 TRAILER POWER BLUNT CUT 15'	1
15	142895	CABLE, AW5800, TRAILER SCALE INTERFACE 2"	1

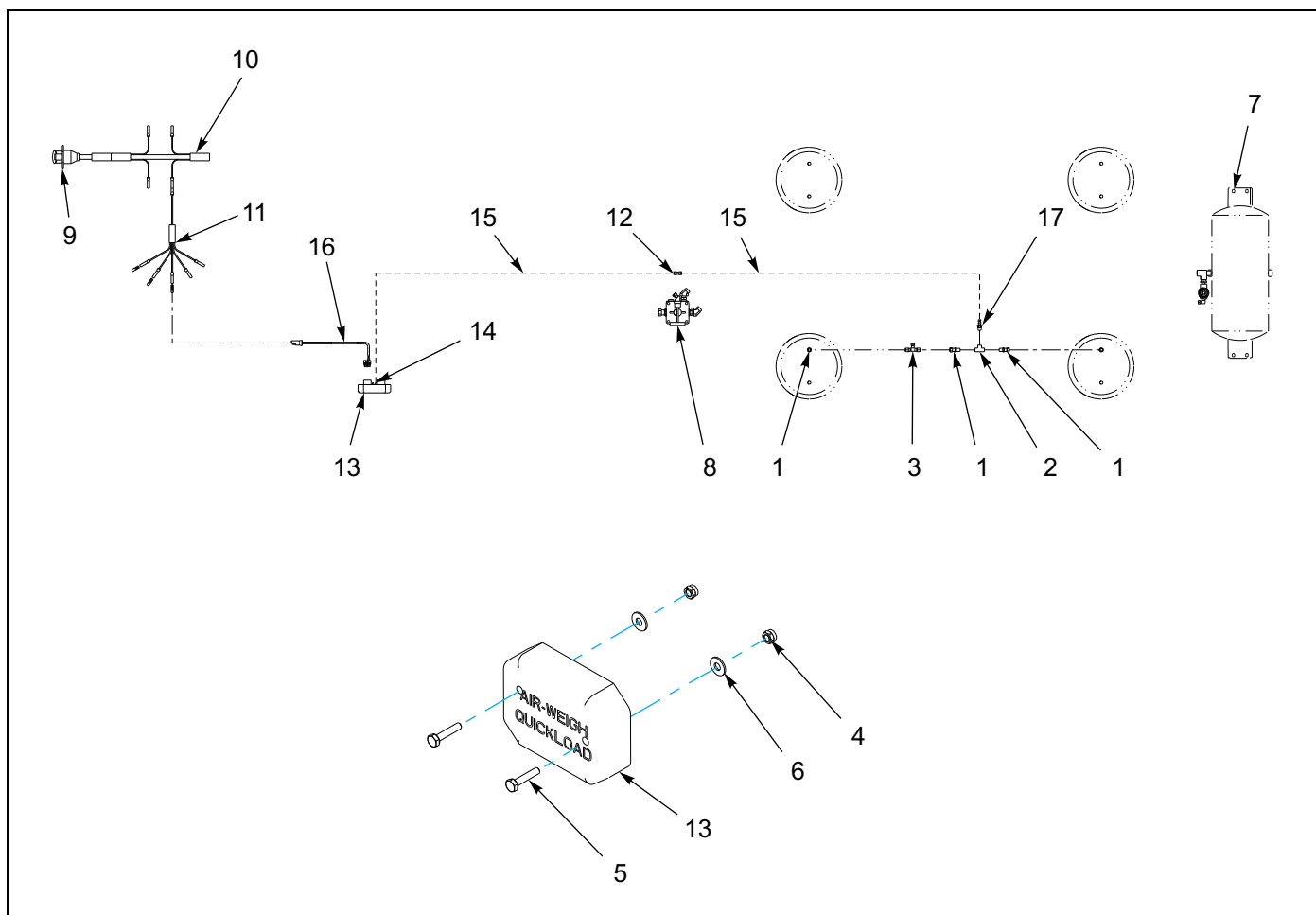


Figure 1-71: Air Digital Scale - Quickload System

Air Digital Scale - Quickload System

ITEM	PART NUMBER	DESCRIPTION	QTY.
	175358	SCALE INSTALLATION, QUICKLOAD SYSTEM	
1	1-297-010007-11	FITTING AIR	2
2	1-297-010009-02	FITTING, AIR PIPE TEE	1
3	1-297-010010-04	FITTING AIR UNION TEE	REF
4	1-512-010005-01	NUT HEX LOCK 1/4-20 GRB	REF
5	1-654-010047-07	SCREW, HEX HEAD CAP 1/4-20 X 1-1/4 GR5	REF
6	1-861-010032-07	WASHER, FLAT 1/4	REF
7	----	SUSPENSION, AIR RLU A/R	REF
8	141607	AIR BOOSTER VALVE ASSEMBLY (SEE PAGE 1-34)	REF
9	143100	HARNESS, 7 WAY RECEPTACLE	REF
10	143101	HARNESS, FRONT MAIN	REF
11	150093	HARNESS, 5 AUXILIARY BRANCHES	REF
12	175359	UNION, AIR HOSE	1
13	175360	SCALE, AIR QL ,TRAVEL AXLE MODIFIED (ITEMS 14-17)	1
14	175363	SPRING HOSE CLAMP	1
15	175365	AIR LINE	1
16	184392	CABLE, TRAILER, POWER, BLUNT CUT, 15'	1
17	180221	HOSE BARB FITTING, BRASS	1

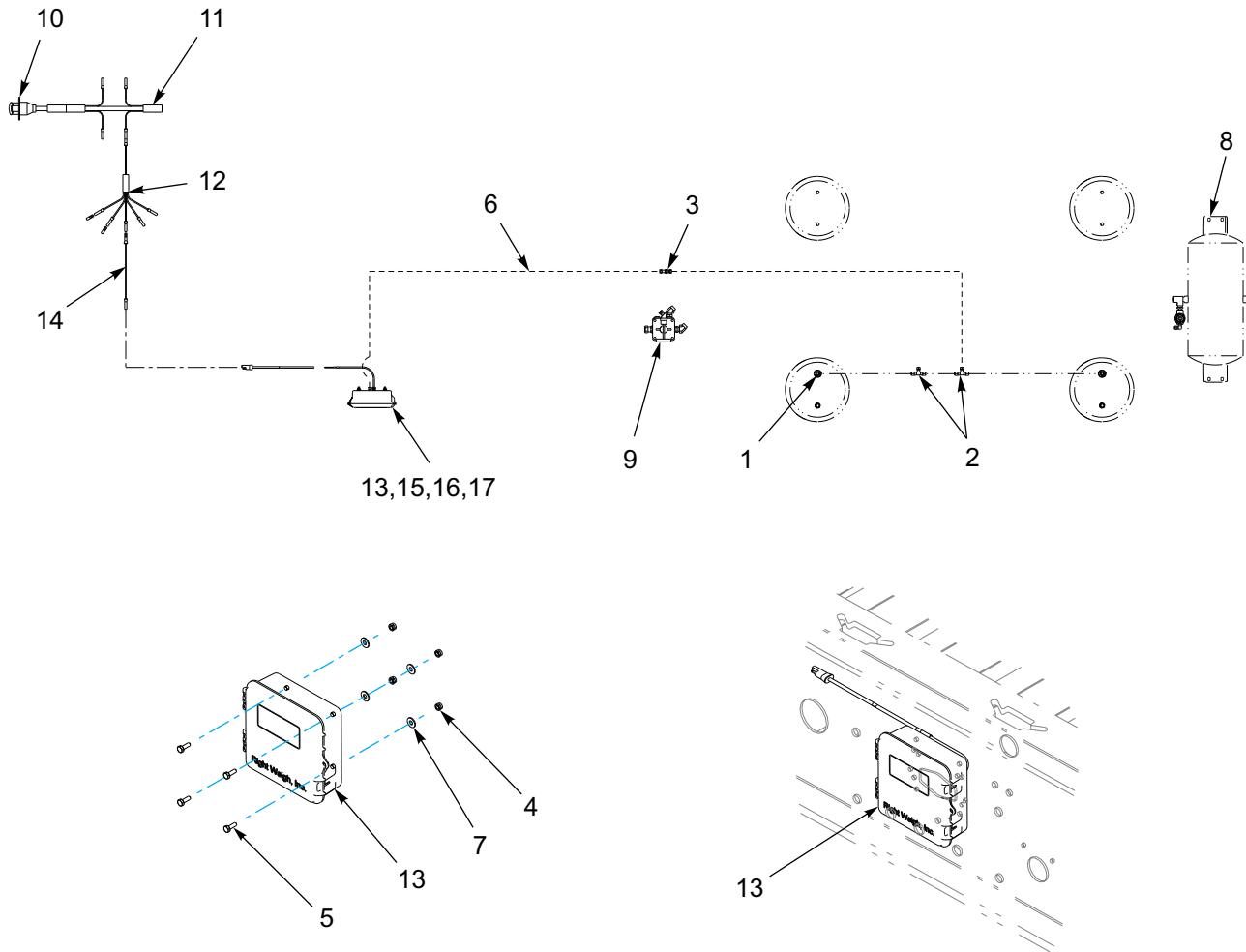


Figure 1-72: Air Digital Scale - Right Weigh System

Air Digital Scale - Right Weigh System

ITEM	PART NUMBER	DESCRIPTION	QTY.
	170470	SCALE INSTALLATION, RIGHT WEIGH SYSTEM	
	205742	SCALE INSTALLATION, RIGHT WEIGH SYSTEM W/ BLUETOOTH	
1	1-297-010007-11	FITTING AIR	2
2	1-297-010010-04	FITTING AIR UNION TEE	REF
3	1-297-010014-02	FITTING, AIR	1
4	1-512-010005-01	NUT HEX LOCK 1/4-20 GRB	REF
5	1-654-010047-04	SCREW, HEX HEAD CAP 1/4-20 X 3/4 GR5	24
6	1-833-010001	TUBING NYLON 1/4 OD	AR
7	1-861-010032-07	WASHER, FLAT 1/4	REF
8	-----	SUSPENSION, AIR RLU A/R	REF
9	141607	AIR BOOSTER VALVE ASSEMBLY (SEE PAGE 1-34)	REF
10	143100	HARNESS, 7 WAY RECEPTACLE	REF
11	143101	HARNESS, FRONT MAIN	REF
12	150093	HARNESS, 5 AUXILIARY BRANCHES	REF
13	170471	HARNESS ASSEMBLY, RIGHT WEIGH (USED W/ 170470)	1
	205744	HARNESS ASSEMBLY, RIGHT WEIGH (USED W/ 205742)	1
14	3-368-010252	HARNESS ASSEMBLY, BULKHEAD LIGHT EXT	1
15	171159	DIGITAL SCALE (USED W/ 170470)	1
	205747	DIGITAL SCALE W/ BLUETOOTH (USED W/ 205742)	1
16	171160	DIGITAL INSTALLATION KIT	1
17	171161	MOUNTING BOX, BRACKET, AND HARDWARE	1

Bulkheads - Options

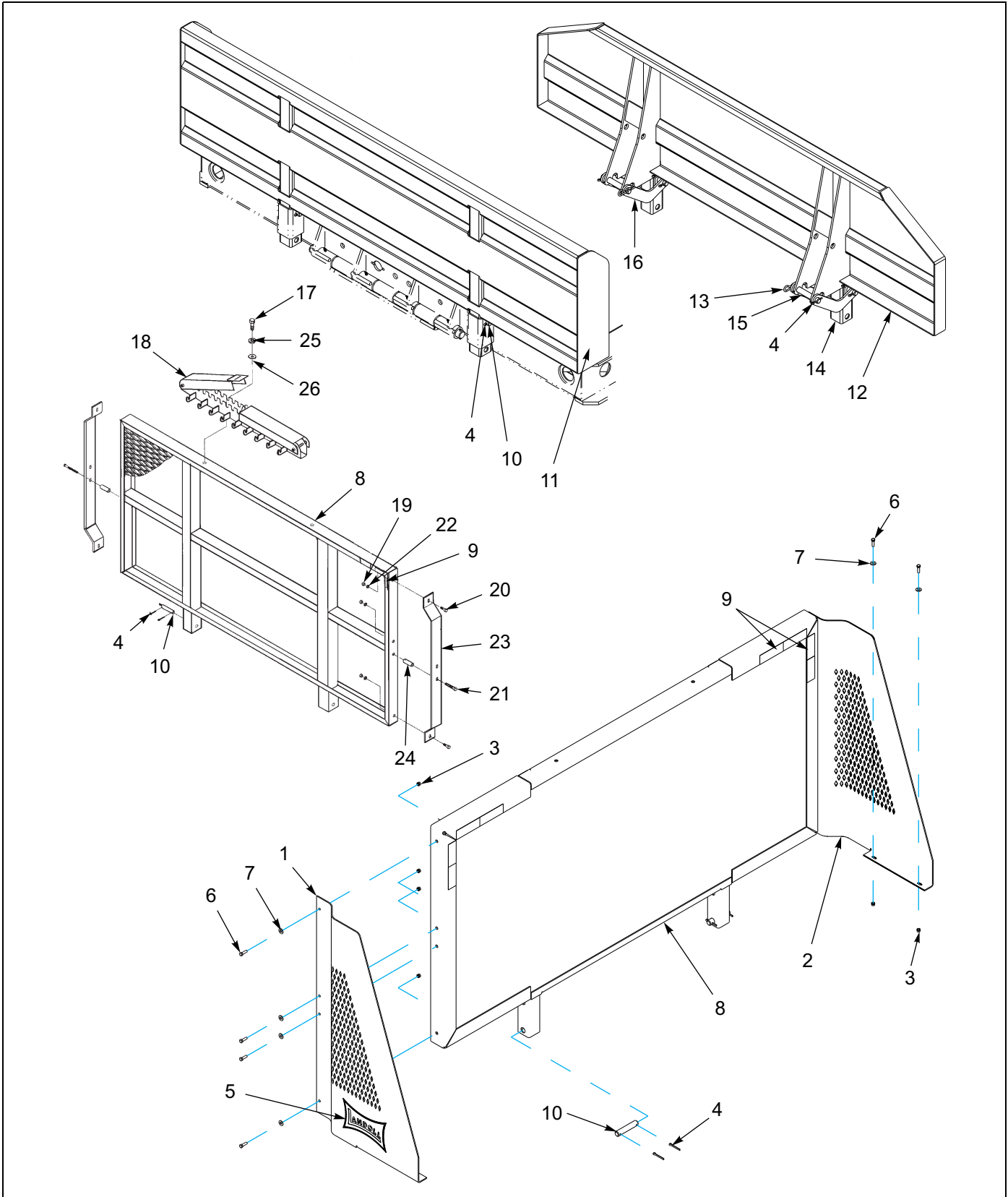


Figure 1-73: Bulkhead Assembly

Bulkhead Assembly

ITEM	PART NUMBER	DESCRIPTION	QTY.
	128414	BULKHEAD INSTALLATION (ITEMS 1-10)	
	134616	BULKHEAD INSTALLATION 26 X 102 (ITEMS 4, 9-10 & 11)	
	136848**	EXTENSION INSTALLATION 16/24 (ITEMS 4 & 12-16)	
	B7-141-003	BULKHEAD CHAIN RACK INSTALLATION (ITEMS 6,7,17 & 18)	
	3-141-010121	BULKHEAD INSTALLATION (ITEMS 4, 8-10 & 19-24)	
1	128137	EXTENSION, BULKHEAD ALUM LH	1
	128153	EXTENSION, BULKHEAD LH	1
2	128138	EXTENSION, BULKHEAD ALUM RH	1
	128152	EXTENSION, BULKHEAD RH	1
3	1-512-010005-05	NUT, HEX LOCK 3/8-16	12
4	1-557-010362-63	COTTER PIN 1/4 X 2	**10, 4
5	153754	DECAL, BOW TIE - BLACK (SEE PAGE 1-3)	2
	153755	DECAL, BOW TIE - WHITE (SEE PAGE 1-3)	2
6	1-654-010051-06	SCREW, HEX HEAD CAP 3/8-16 X 1-1/4 GR5	12
7	1-861-010032-11	WASHER, FLAT 3/8	12
8	3-141-010155	BULKHEAD WELDMENT 48 X 96	1
9	3-573-010378	DECAL, 2" REFLEXITE TAPE, WHITE	AR
10	6-557-010163	PIN HITCH LEVEL LINK	2
11	134608	BULKHEAD WELDMENT 26 X 102	1
12	136849	BULKHEAD WELDMENT 16/24 X 102 2 POS	1
13	1-557-010014	PIN, HAIR 1/4	2
14	3-482-010249	MOUNT WELDMENT BULKHEAD	2
15	3-557-010380	PIN	6
16	3-755-010080	SUPPORT WELDMENT, BULKHEAD	2
17	1-654-010055-03	SCREW HEX CAP 1/2-13UNCX1-1/2	2
18	3-141-010008	CHAIN HANGER, LOCKING CHANNEL ASSEMBLY	1
19	1-512-010005-09	NUT, HEX LOCK 1/2-13 GRB	6
20	1-654-010055-03	SCREW, HEX HEAD CAP 1/2-13 X 1-1/2 GR5	4
21	1-654-010055-13	SCREW, HEX HEAD CAP 1/2-13 X 4 GR5	2
22	1-861-010032-15	WASHER, FLAT 1/2W	6
23	3-054-010101	BAR, SIDE 48" BULKHEAD 102"	2
24	3-711-010025	SPACER, 48" BULKHEAD	2
25	1-861-010034-13	WASHER, LKG HLCL SPR 1/2	2
26	1-861-010032-15	WASHER, FLAT 1/2W ZP/CD	2

** 1ST QUANTITY IS USED WITH P/N - (136848)

2ND QUANTITY IS USED WITH P/N - (128136, 134616, B7-141-003, & 3-141-010121)

F-141-010121-2 FIELD INSTALLATION KIT (ITEMS 4, 8-10 & 19-24)

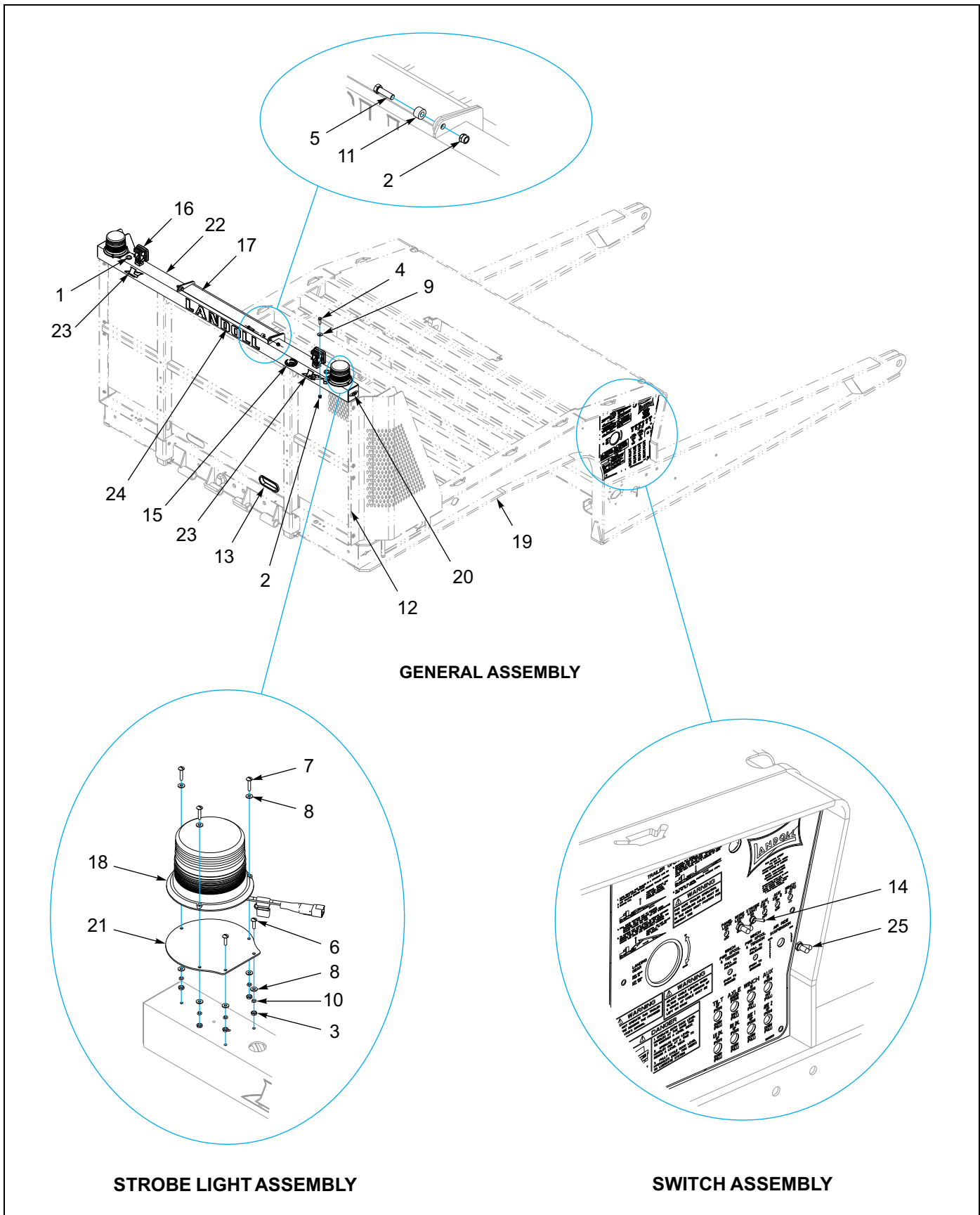


Figure 1-74: Bulkhead - Chain Rack Lights General Assembly

Bulkhead - Chain Rack Lights General Assembly

ITEM	PART NUMBER	DESCRIPTION	QTY.	
	191808	BULKHEAD CHAIN RACK S/T/T WL	*	
	191809	BULKHEAD CHAINRACK S/T/T WL BC		*
1	1-343-010006	GROMMET	2	2
2	1-512-010005-09	NUT,HEX,SLFLKG, 1/2-13 GRB	4	4
3	1-512-010007-03	NUT, HEX 10-24	--	10
4	1-654-010055-03	SCREW,HEX CAP,1/2-13UNCX1-1/2	2	2
5	1-654-010055-04	SCREW,HEX CAP,1/2-13UNCX1-3/4	2	2
6	1-656-010003051	SCREW,RH HD MACH 10-24X3/4	--	4
7	1-656-010003053	SCREW RD HD MACH 10-24X1	--	6
8	1-861-010032-03	WASHER, FLAT #10 ZP/CD	--	16
9	1-861-010032-15	WASHER, FLAT 1/2 W ZP/CD	2	2
10	1-861-010034-07	WASHER,LKG,HLCL SPR, NO 10	--	10
11	125799	SPACER, 10D X 1/2 ID X .632	2	2
12	128414	BULKHEAD INSTALLATION	REF	REF
13	143114	GROMMET OVAL GROTE	1	1
14	150117	SWITCH ASSY LIGHT GROTE	REF	REF
15	153102	GROMMET MOUNT 2-5/16" GROTE	1	1
16	163996	LIGHT,12V SQUARE LED FLOOD	REF	REF
17	167975	LID WLDMT CHAIN BINDER	1	1
18	184501	STROBE LIGHT DEUTSCH CONN	--	REF
19	186901	GOOSENECK WLDMT, US 400	REF	REF
20	187863	LIGHT YEL LED.75CL/MK CLEAR CB	REF	REF
21	191545	PLATE BEACON MOUNTING	--	2
22	191881	PLATFORM, 10FT 6IN	1	1
23	192205	DECAL HWY L, 7-3/8 X 2-7/8	2	2
24	193456	DECAL LANDOLL 28-5/16 X 3-7/32	1	1
25	81264	RUBBER BOOT FOR ELECT SWITCH	1	2

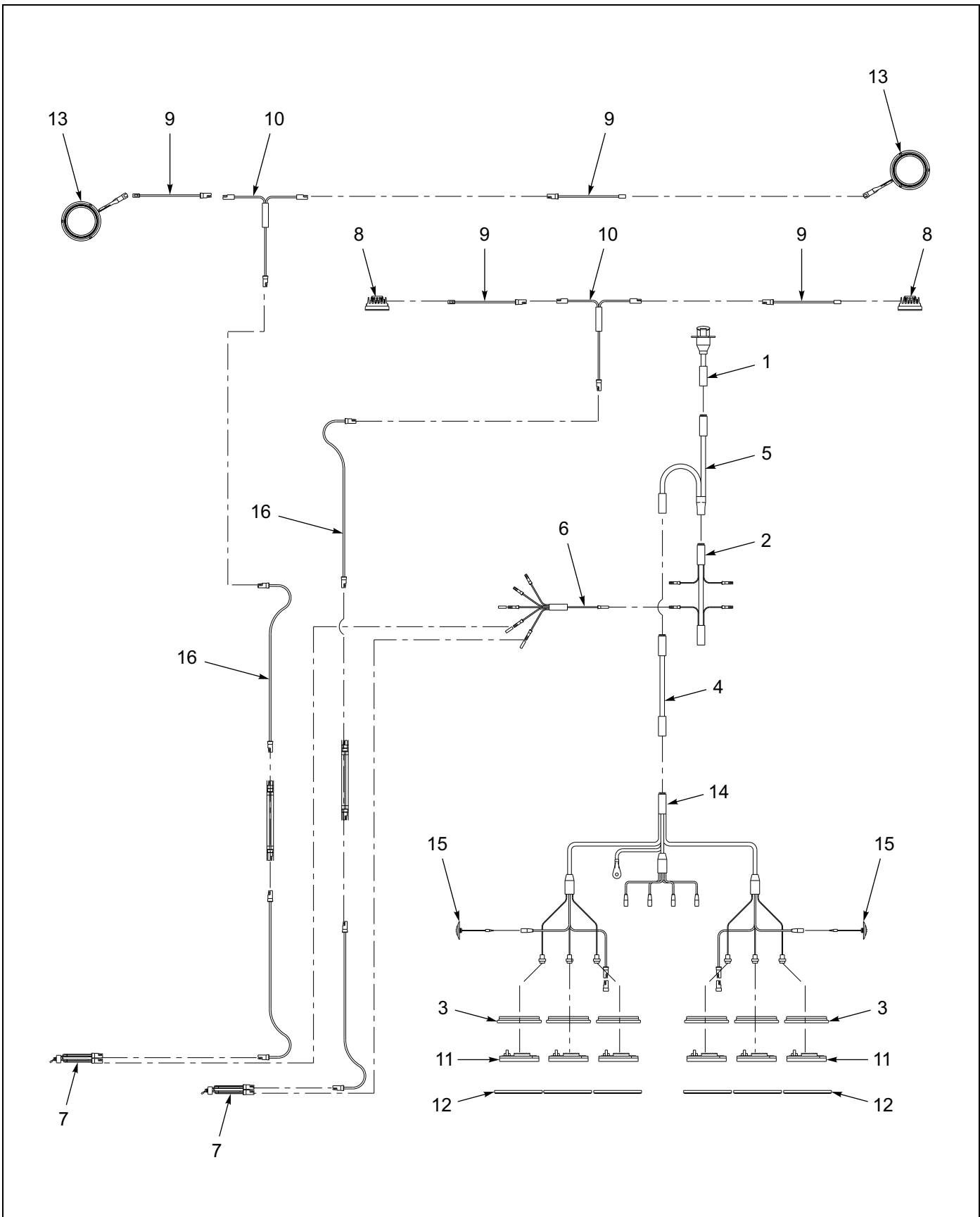


Figure 1-75: Bulkhead - Chain Rack Lights Electrical System

Bulkhead - Chain Rack Lights Electrical System

ITEM	PART NUMBER	DESCRIPTION	QTY.	
	191808	BULKHEAD CHAIN RACK S/T/T WL	*	
	191809	BULKHEAD CHAINRACK S/T/T WL BC	*	
1	143100	HARNESS 7WAY RECP GROTE	REF	REF
2	143101	HARNESS FRONT MAIN GROTE	REF	REF
3	143114	GROMMET OVAL GROTE	6	6
4	143167	HARNESS EXT 84 IN GROTE	1	1
5	146929	HARNESS Y SPLITTER GROTE	1	1
6	150093	HARNESS 5 AUX BRANCHES GROTE	REF	REF
7	150117	SWITCH ASSY LIGHT GROTE	1	2
8	163996	LIGHT,12V SQUARE LED FLOOD	2	2
9	164052	HARNESS,60"BRANCH,WORK LIGHT	2	4
10	169853	HARNESS T PWR BRANCH	1	2
11	179902	LIGHT S/T/T RED CLEAR LENS GRT	6	6
12	180570	COVER CHROME OBLONG GROMMET	6	6
13	184501	STROBE LIGHT DEUTSCH CONN	--	2
14	187859	HARNESS BUMPER MICRONOVA GROTE	1	1
15	187863	LIGHT YEL LED.75CL/MK CLEAR CB	2	2
16	3-368-010252	HARNESS ASSY BKHD LIGHT EXT	2	4

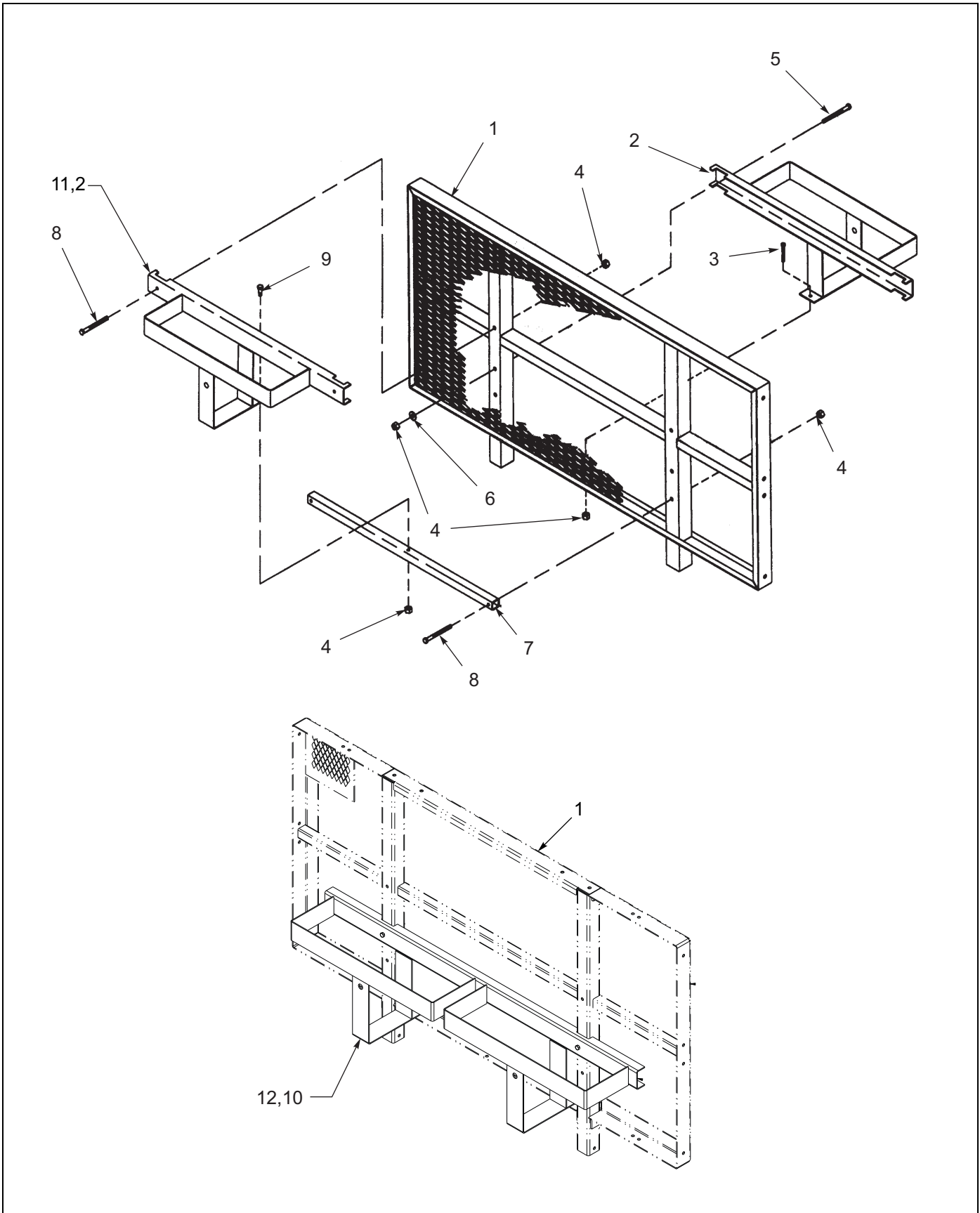


Figure 1-76: Bulkhead - Rack Mount Installation

Bulkhead - Rack Mount Installation

ITEM	PART NUMBER	DESCRIPTION	QTY.				
	3-612-010015-1	RACK INST. BHD, FRONT MOUNT 10R17.5	*				
	3-612-010015-2	RACK INST. BHD, REAR MOUNT 10R17.5		*			
	3-612-010015-3	RACK INST. BHD, FRONT MOUNT DUAL 10R17.5			*		
	112986	RACK INST. BHD, FRONT MOUNT 255/70R22.5				*	
	129573	RACK INST. BHD, FRONT MOUNT DUAL 255/22.5					*
1	-----	BULKHEAD WELDMENT	REF	REF	REF	REF	REF
2	3-612-010016	RACK WELDMENT, BULKHEAD MOUNT 10R17.5	1	1	--	--	--
3	1-654-010055-01	SCREW, HEX HEAD CAP 1/2-13 X 1 GR5	1	--	2	1	2
4	1-512-010005-09	NUT, HEX LOCK 1/2-13 GRB	3	5	4	3	4
5	1-654-010055-15	SCREW, HEX HEAD CAP 1/2-13 X 5 GR5	2	--	2	2	2
6	1-861-010032-15	WASHER, FLAT 1/2W	2	--	2	2	2
7	3-829-010337	TUBE W/ TAB MOUNTED BULKHEAD SPARE RACK	--	1	--	--	--
8	1-654-010055-18	SCREW, HEX HEAD CAP 1/2-13 X 6-1/2 GR5	--	4	--	--	--
9	1-654-010055-09	SCREW, HEX HEAD CAP 1/2-13 X 3 GR5	--	1	--	--	--
10	3-612-010020	RACK WELDMENT, BULKHEAD MOUNT 210/R17.5	--	--	1	--	--
11	112987	RACK WELDMENT, BULKHEAD MOUNT 255/70R22.5	--	--	--	1	1
12	129572	RACK WELDMENT, BULKHEAD MOUNT DUAL 255/22.5	--	--	--	--	1

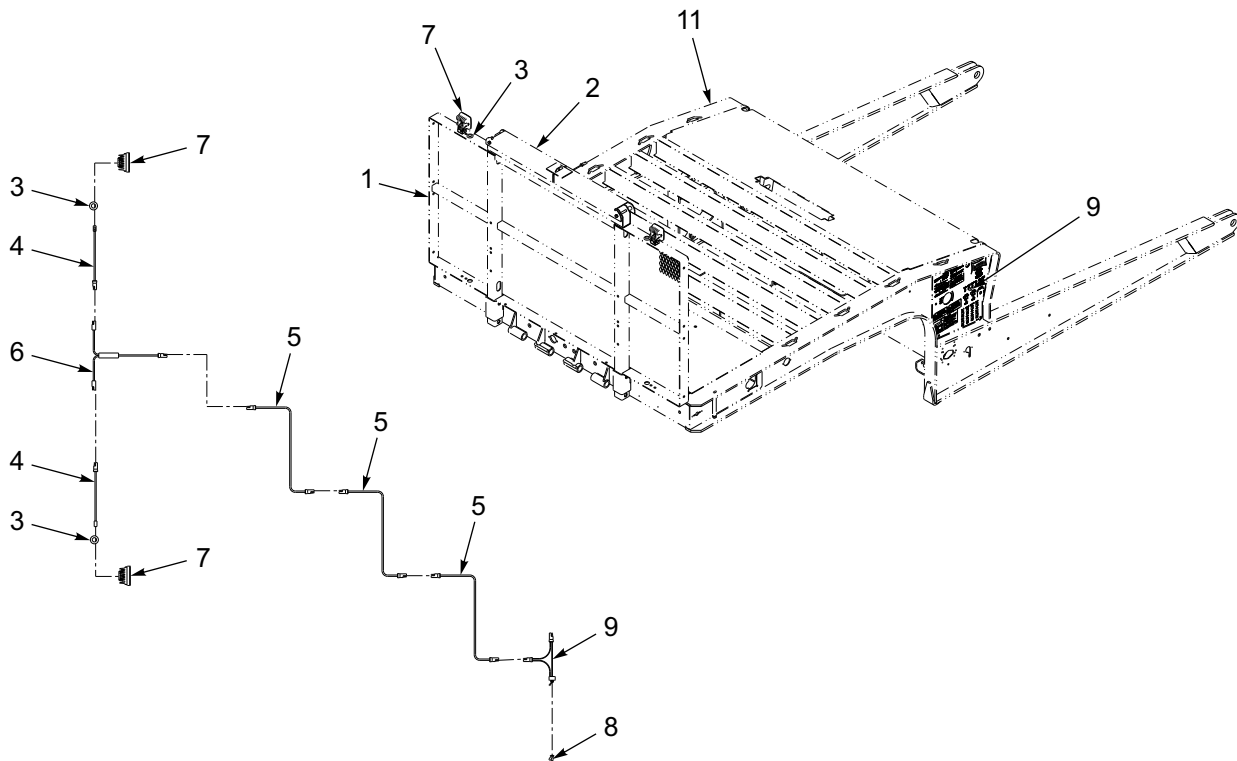


Figure 1-77: Bulkhead - Work Light Installation

Bulkhead - Work Light Installation

ITEM	PART NUMBER	DESCRIPTION	QTY.	
	191813	WORK LIGHT INSTL, BULKHEAD	*	
	191814	WORK LIGHT HD INSTL, BULKHEAD	*	
1	3-141-010155	BULKHEAD WELDMENT	REF	REF
2	B7-141-003	CHAIN RACK INSTALLATION	REF	REF
3	1-343-010006	GROMMET	2	2
4	164052	HARNESS, 60" BRANCH WORK LIGHT	2	2
5	3-368-010252	HARNESS ASSEMBLY, BULKHEAD LIGHT EXTENSION	2	3
6	169853	HARNESS, JUMPER T-POWER	1	1
7	163996	LIGHT LED WHITE FLOOD LAMP	2	2
8	81264	RUBBER BOOT FOR ELECT SWITCH	1	1
9	150117	TOGGLE SWITCH SEALED SPST	1	1
10	1-822-010002	TRIM LOCK 3/16 (NOT SHOWN)	4	4
11	186901	WLDMT, GOOSENECK, US 400	REF	REF

Bumpers - Options

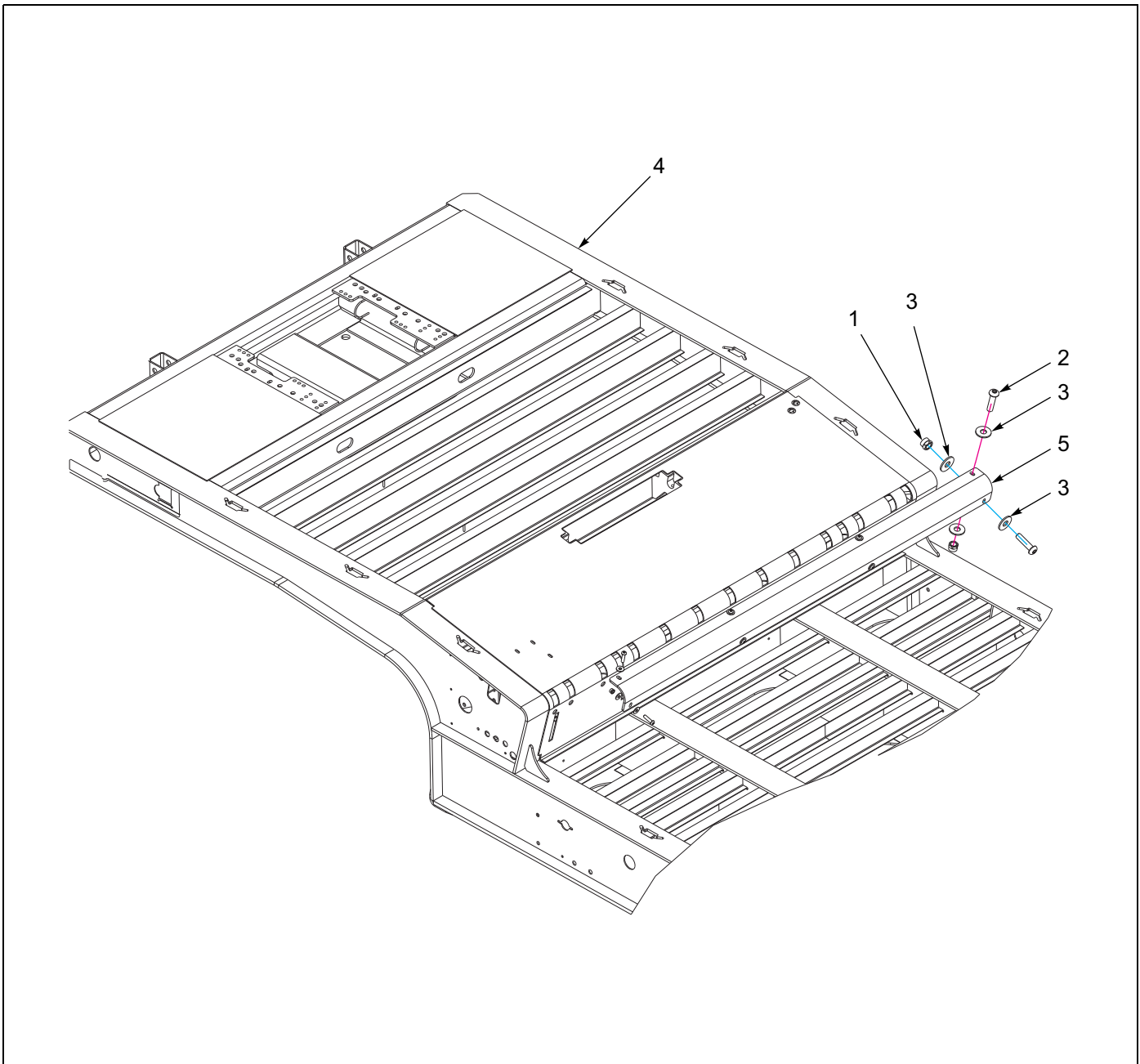


Figure 1-78: Bumper - Fork Lift Plate Installation

Bumper - Fork Lift Plate Installation

ITEM	PART NUMBER	DESCRIPTION	QTY.
	141710	FORKLIFT BUMPER PLATE INSTALLATION	
1	1-512-01005-09	NUT, HEX, SLFLKG, 1/2-13 UNC, GRB	8
2	1-654-010089-13	SCREW, SKT BTN, CP 1/2-13 UNC X 2	8
3	1-861-010032-15	WASHER, FLAT, ZP/CD, 1/2W	16
4	139540	FRAME WELDMENT, 950B-45	REF
5	141689	PLATE, FORKLIFT BUMPER, 930B	8

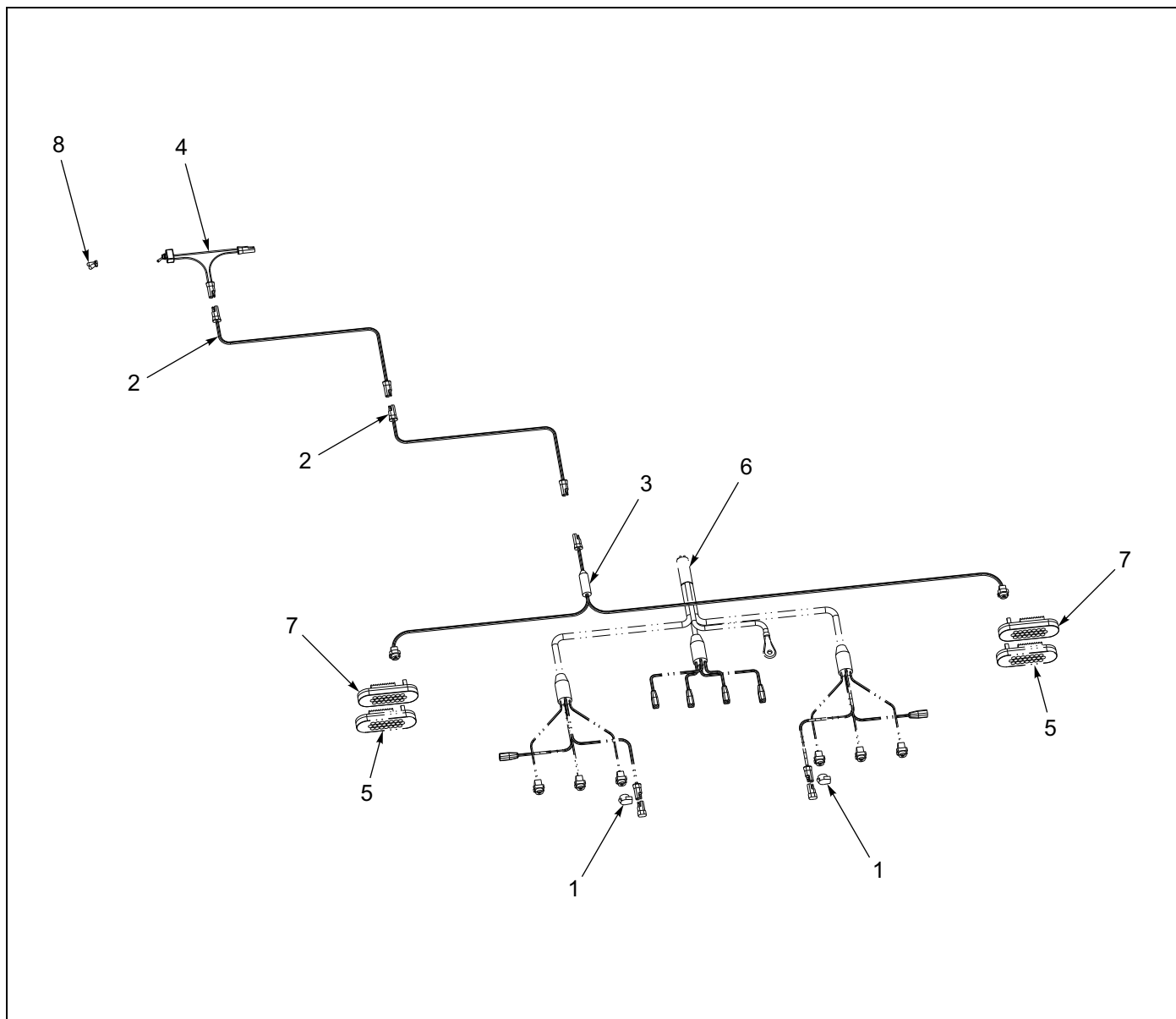


Figure 1-79: Bumper - Strobe Installation

Bumper - Strobe Installation

ITEM	PART NUMBER	DESCRIPTION	QTY.
	191834	STROBE INSTL BUMPER GROTE	
1	144608	DUMMY PLUG FOR FEMALE PLUG	2
2	150111	HARNESS 300 IN MALE.FEMALE	2
3	150114	HARNESS BUMPER STROBE GROTE	1
4	150117	SWITCH ASSY LIGHT GROTE	1
5	179902	LIGHT S/T/T RED CLEAR LENS GRT	2
6	187859	HARNESS BUMPER MICRONOVA GROTE	REF
7	187869	LIGHT STROBE YEL CLEAR LENS GR	2
8	81264	RUBBER BOOT FOR ELECT SWITCH	1
	191835	FIELD INSTALLATION KIT - STROBE INSTALLATION BUMPER GROTE	

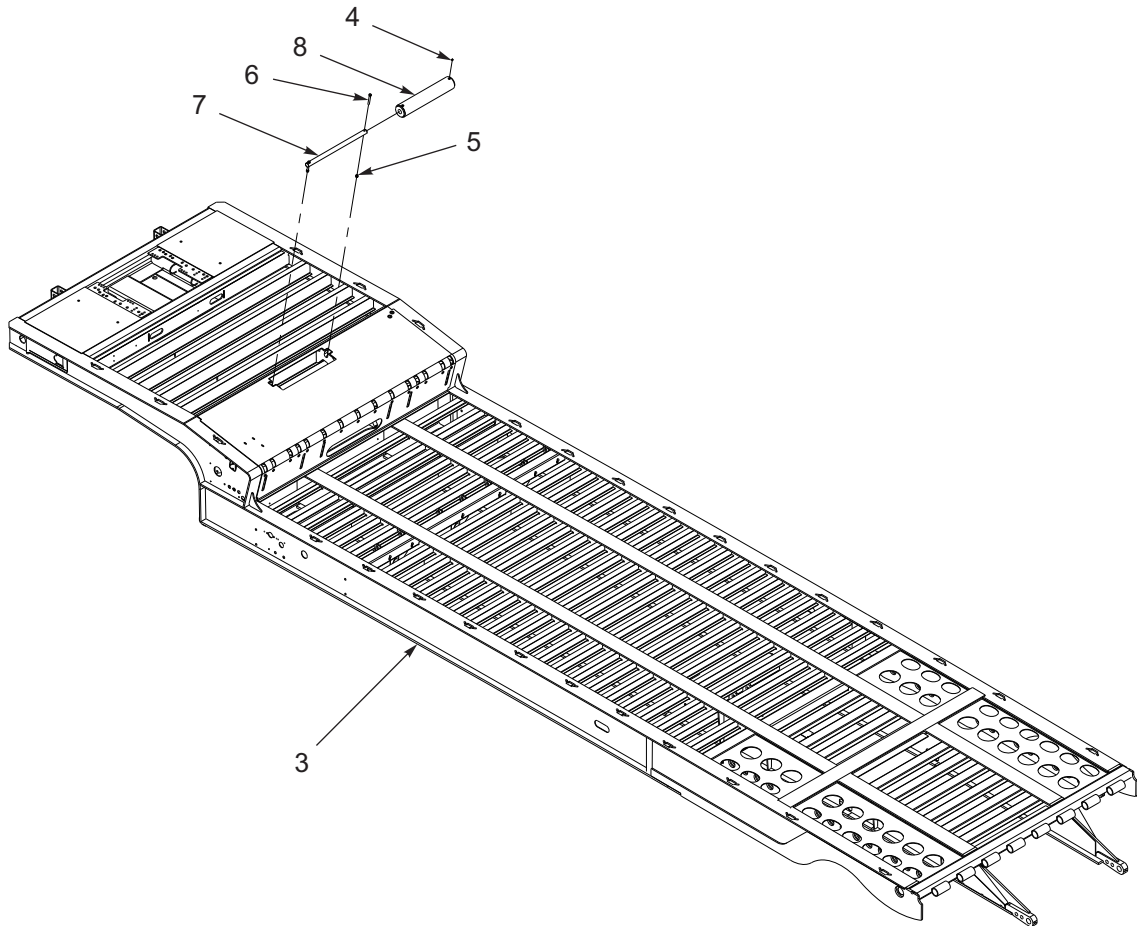


Figure 1-81: Dual Slope Roller Installation

Dual Slope Roller Installation

ITEM	PART NUMBER	DESCRIPTION	QTY.
	160084	DUAL SLOPE ROLLER INSTALLATION	
3	----	FRAME, MOD DUAL SLOPE ROLL	1
4	1-298-010001-1	FITTING, GREASE STR SHORT 1/4-28	6
5	1-512-010005-09	NUT, HEX LOCK 1/2-13 GRB	11
6	1-654-010055-13	SCREW, HEX HEAD CAP 1/2-13 X 1-1/2 GR5	11
7	3-642-010134	ROLLER ROD	2
8	3-645-010059	ROLLER WELDMENT, CABLE - UPPER DECK	2

Electrical Installation - Options

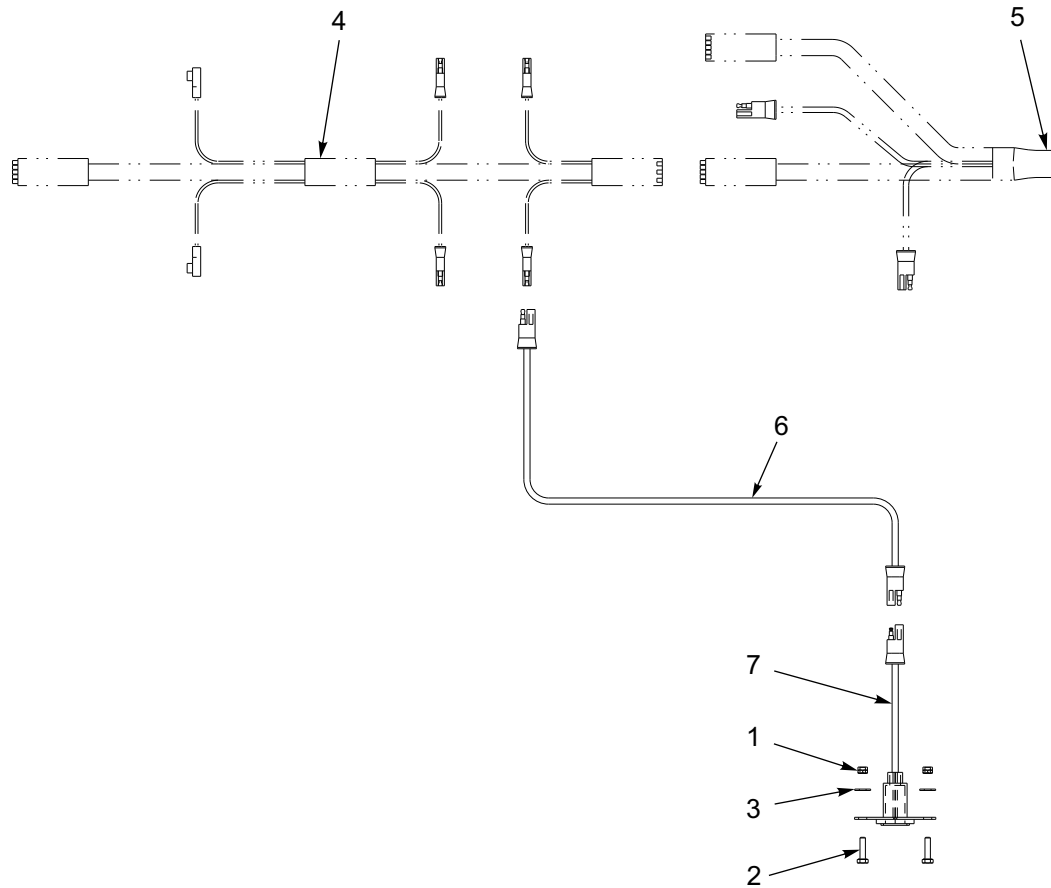


Figure 1-82: Rear Side Electrical Outlet Installation

Rear Side Electrical Outlet Installation

ITEM	PART NUMBER	DESCRIPTION	QTY.
	145538	ELECTRICAL OUTLET, REAR SIDE	
1	1-512-010005-01	NUT, HEX LOCK 1/4-20 GRB	2
2	1-654-010047-06	SCREW, HEX HEAD CAP 1/4-20 X 1 GR5	2
3	1-861-010032-07	WASHER, FLAT 1/4W	2
4	143102	HARNESS, BED MAIN GROTE	REF
5	143103	HARNESS, E-CHAIN GROTE	REF
6	150111	HARNESS 300"	1
7	150116	HARNESS/RECEPTACLE ASSEMBLY	1

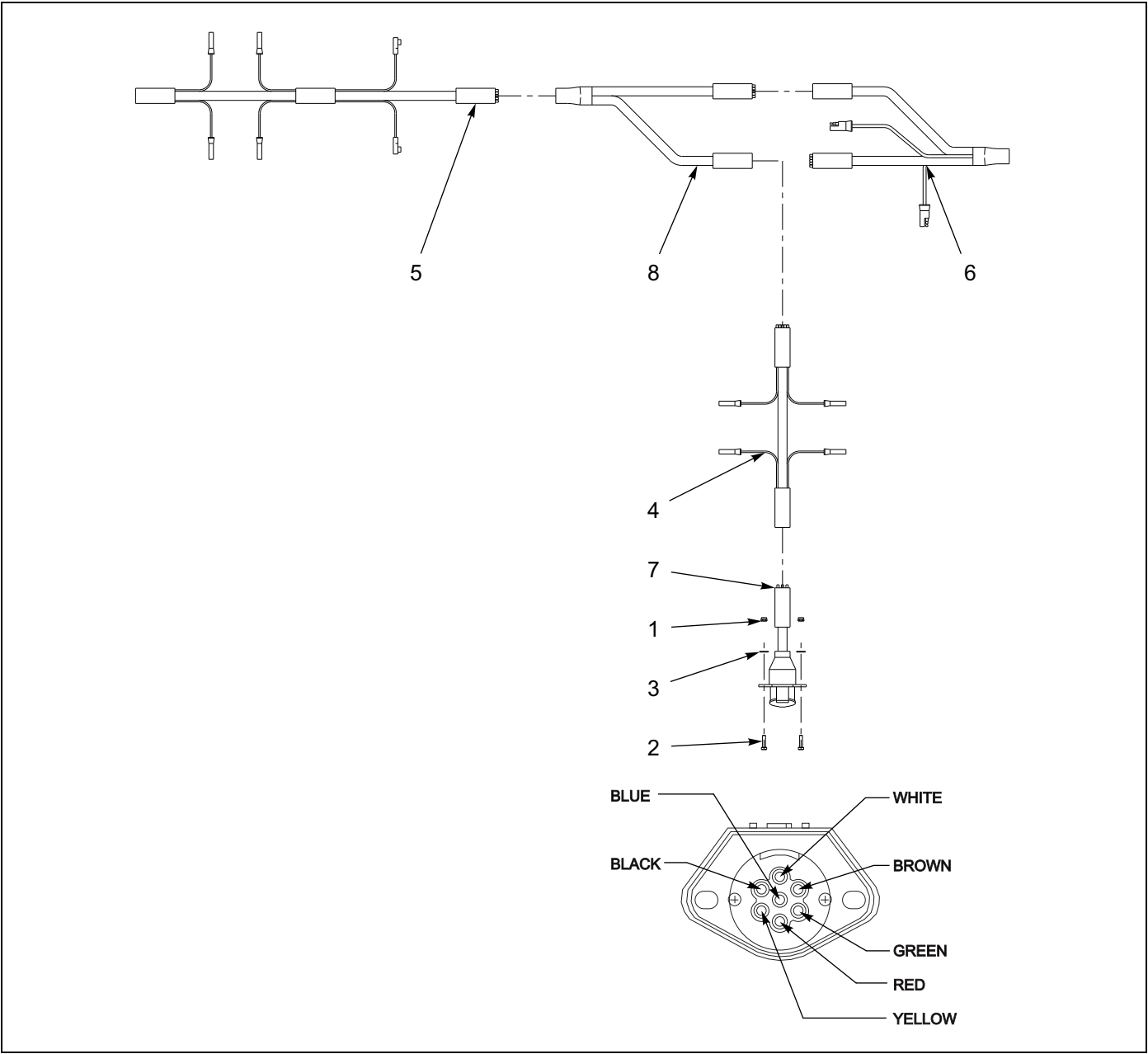


Figure 1-83: 7-Way Electrical Installation

7-Way Electrical Installation

ITEM	PART NUMBER	DESCRIPTION	QTY.
	148585	7-WAY ELECTRICAL INSTALLATION	
1	1-512-010005-01	NUT, HEX LOCK 1/4-20 GRB	2
2	1-654-010047-06	SCREW, HEX HEAD CAP 1/4-20 X 1 GR5	2
3	1-861-010032-07	WASHER, FLAT 1/4W	2
4	143101	HARNESS, FRONT MAIN	1
5	143102	HARNESS, BED MAIN	REF
6	143103	HARNESS, E-CHAIN	REF
7	146897	HARNESS, 7-WAY RECEPTACLE MAIN	1
8	146929	HARNESS, Y SPLITTER	1

Engines - Options

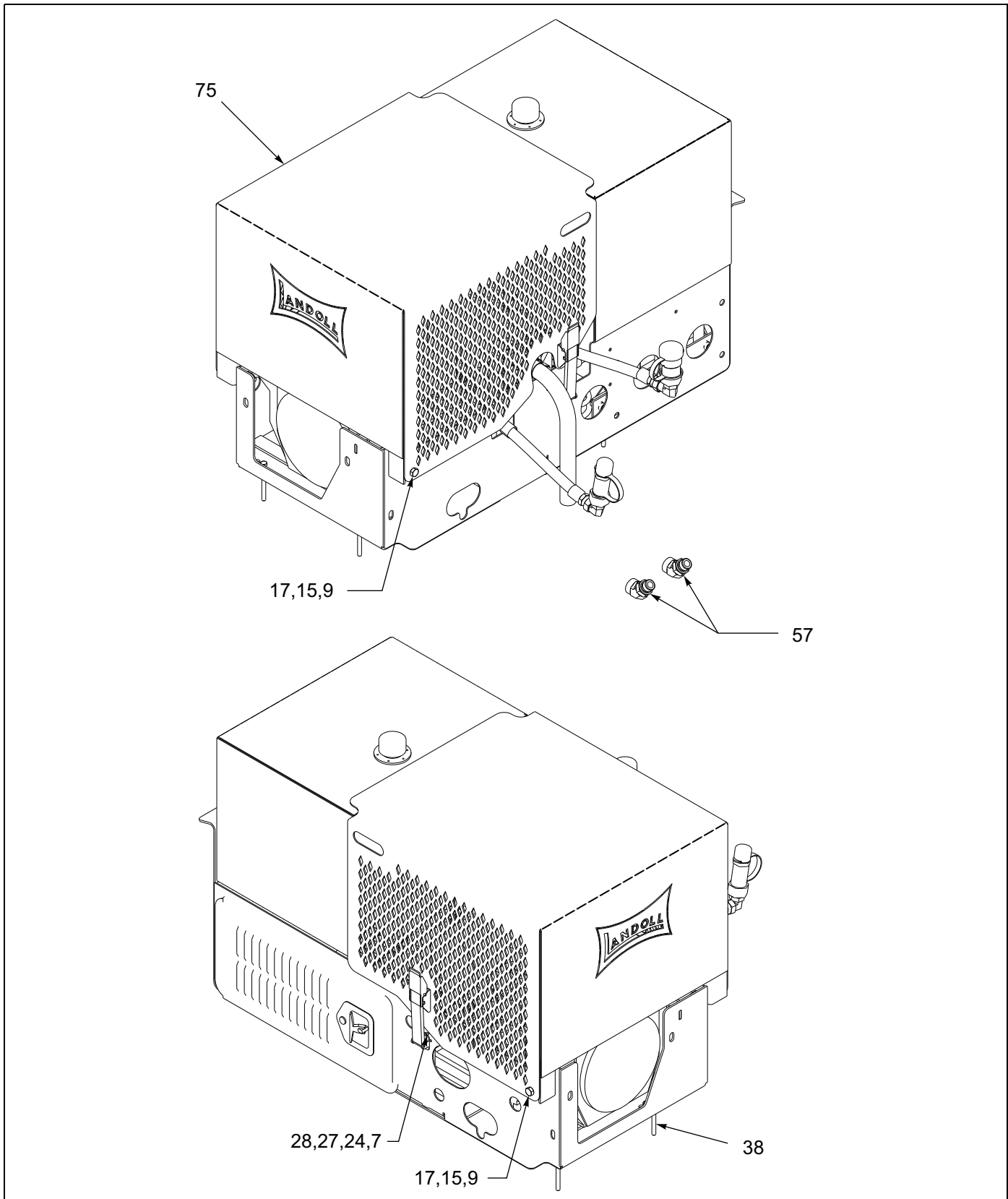


Figure 1-84: Engine - 25 HP Upper Deck Package (1 of 4)

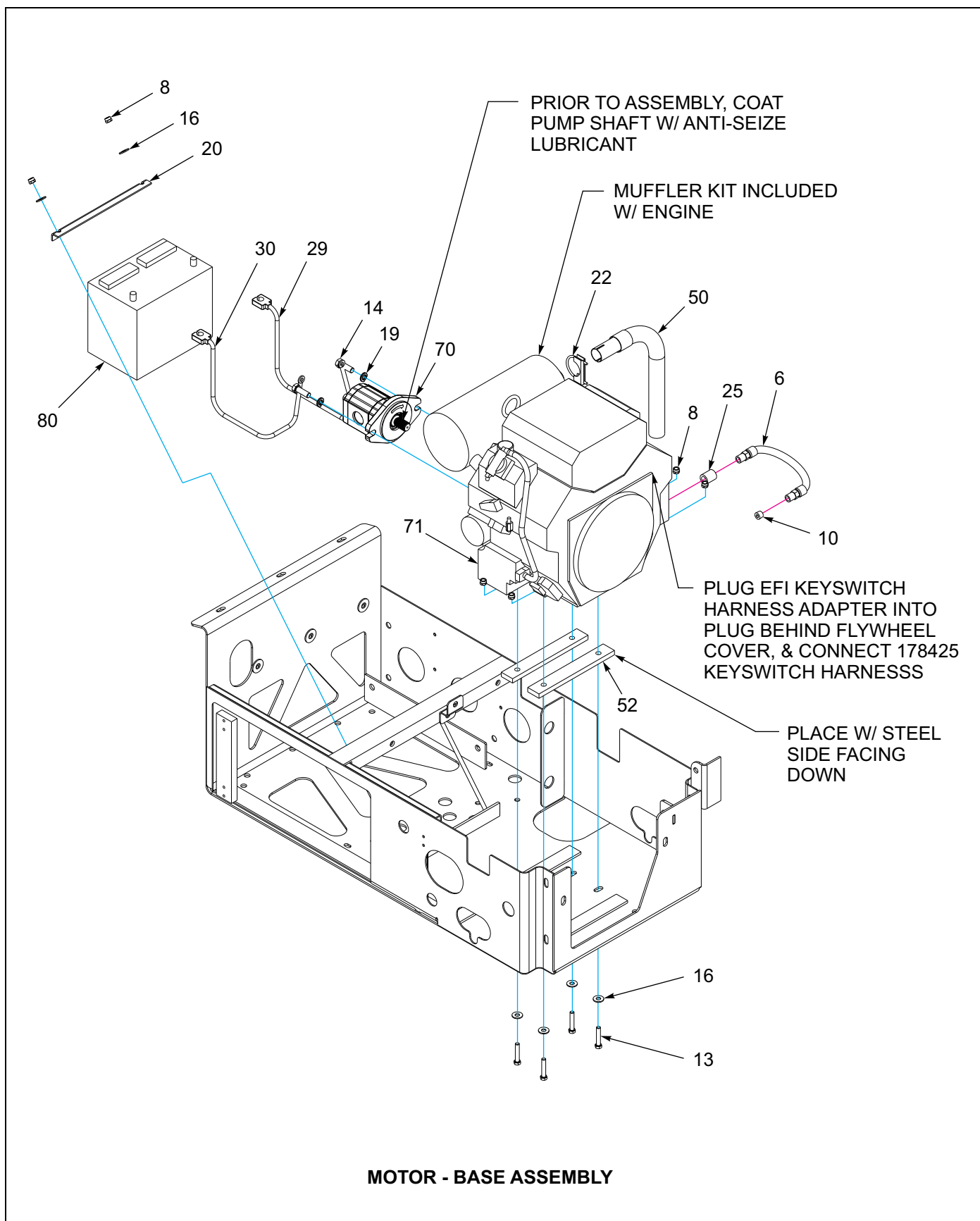
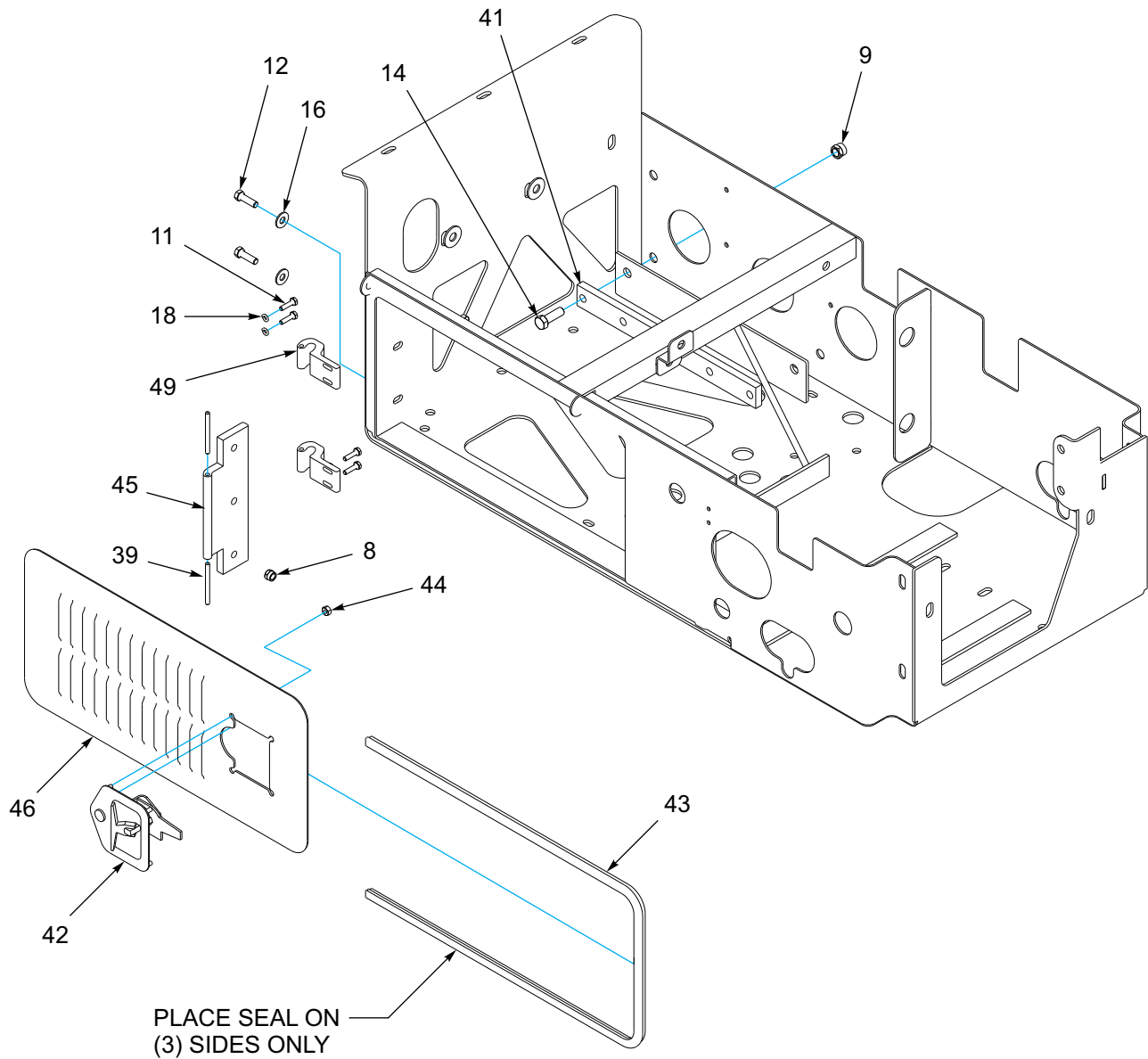


Figure 1-85: Engine - 25 HP Upper Deck Package (2 of 4)



BASE - DOOR ASSEMBLY

Figure 1-86: Engine - 25 HP Upper Deck Package (3 of 4)

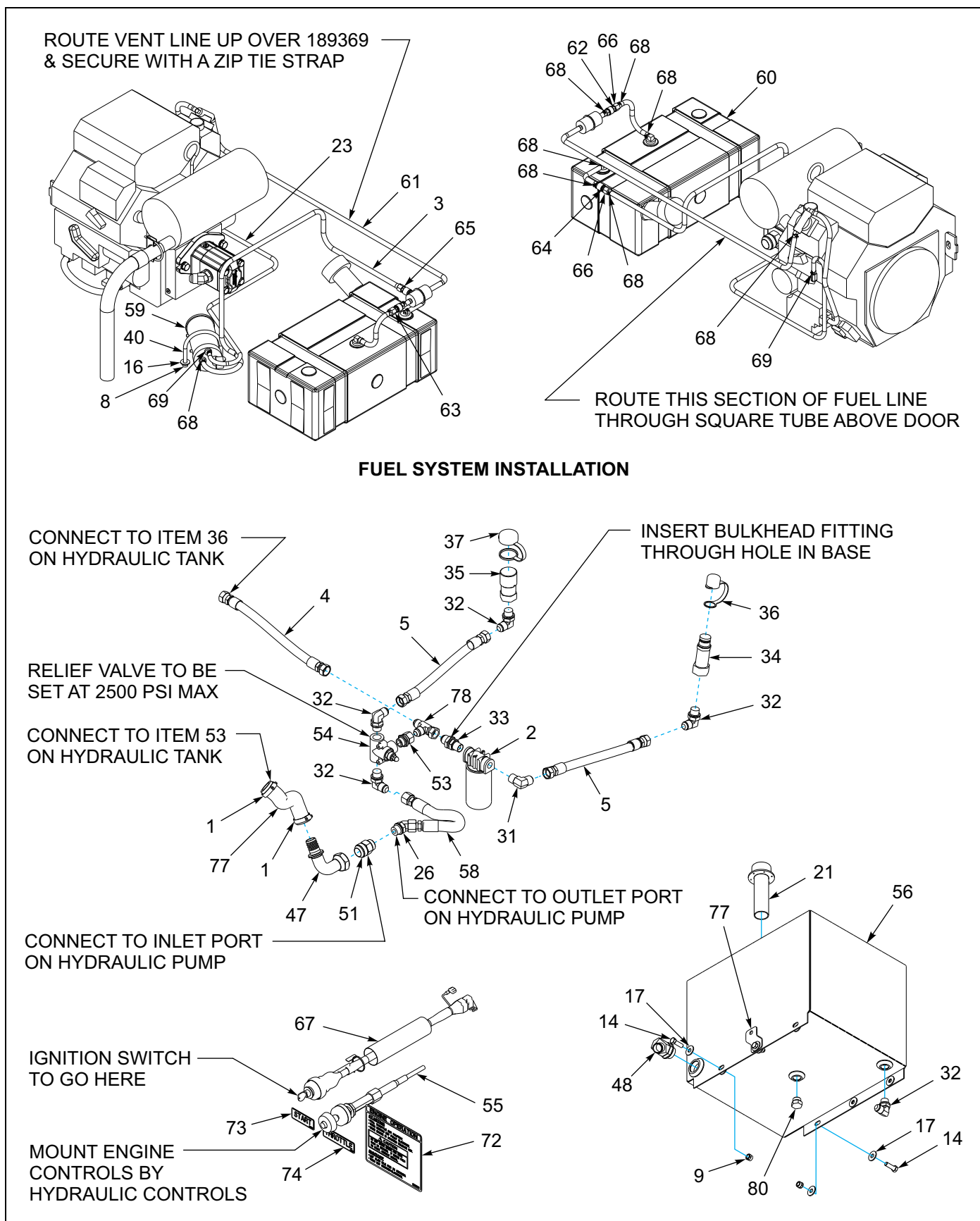


Figure 1-87: Engine - 25 HP Upper Deck Package (4 of 4)

Engine - 25 HP Upper Deck Package

ITEM	PART NUMBER	DESCRIPTION	QTY.
	189360	ENGINE PACKAGE, 25HP EFI, U/D	
	189360FI	FIELD INSTL ENG PKG, 25 HP EFI, U/D	
1	1-181-010046-7	CLAMP,HOSE 1-1/16 TO 2DIA #24	2
2	1-295-010001	FILTER, RETURN LINE	1
3	1-316-010013	HOSE,1/4 LOW PRESSURE FUEL	1
4	1-397-010304018	HOSE ASSY, 3/4 X 18, SAE37, STR-STB	1
5	1-397-010304060	HOSE ASSY,3/4X60,SAE37,STR-ST	2
6	1-397-010312032	HOSE ASSY,3/8X32,3/8 MPT ENDS	1
7	1-512-010004-03	NUT,HEX,SLFLK 10-24UNC, GRA	8
8	1-512-010005-05	NUT, HEX, SLFLKG GRB 3/8-16	15
9	1-512-010005-09	NUT,HEX,SLFLKG, 1/2-13 GRB	10
10	1-560-010002-03	PLUG, PIPE, 3/8NPTF	1
11	1-654-010047-06	SCREW,HX CP 1/4-20UNCX1 GR5	4
12	1-654-010051-06	SCREW,HEX CAP 3/8-16UNCX1-1/4	3
13	1-654-010051-09	SCREW,HEX CAP,3/8-16UNCX2 GR5	6
14	1-654-010055-03	SCREW,HEX CAP,1/2-13UNCX1-1/2	10
15	1-654-010055-13	SCREW, HEX, 1/2-13 UNC X 4 GR5	2
16	1-861-010032-11	WASHER, FLAT 3/8 W ZP/CD	19
17	1-861-010032-15	WASHER, FLAT 1/2 W ZP/CD	14
18	1-861-010034-09	WASHER, LKG HLCL SPR, 1/4	4
19	1-861-010034-13	WASHER, LKG HLCL SPR, 1/2	2
20	3-120-010124	BATTERY CLAMP BRKT	1
21	3-162-010001	FILLER BREATHER STRAINER ASSY	1
22	3-182-010028	CLAMP MUFFLER	1
23	3-316-010008	3/16 ID FUEL HOSE	1
24	3-443-010018	LATCH,FLEX DRAW,LEVER ASSIST	2
25	3/8P COUPL	3/8 BLK PIPE COUPLING (NOT SHOWN)	1
26	40-0667-02	ADAPTER, 45 #8 O-RING-TUBE	1
27	110-0116	SCREW RD HD CAP 10-24X3/4	8
28	110-0253	WASHER,FLAT 3/16 STD	8
29	514-9045-26	CABLE ASSY BATTERY POSITIVE	1
30	514-9073-18	CABLE ASSY BATTERY NEG 18 LNG	1
31	2024-12-12S	ADAPTER 90 3/4MPT X3/4M JIC	1
32	2062-12-12S	ADAPTER,90,#12 O-RINGX#12TUBE	5
33	2240-12-12S	ADAPTER,BLKHD,3/4NPT-3/4TBE	1
34	105479	COUPLER FLAT FACE MALE NOSE	1
35	105480	COUPLER FLAT FACE FEMALE BODY	1
36	105481	COUPLER DUST CAP MALE	1
37	105482	COUPLER DUST CAP FEMALE	1
38	108295	SCREW,HX CP 3/8-16UNCX4 GR5	2
39	108601	PIN, DOOR HINGE	2
40	110578	U-BOLT, 3/8-16 x 3-1/8 x 4-1/8	1
41	113856	MOUNT,ENG ISOLATOR,KOHLERCH25	1
42	114814	LATCH FOLDING T LOCKABLE	1
43	114815	SEAL, SPONGE RUBBER TRIM	1
44	115877	NUT HVY HEX 1/4-20 GR5	4
45	116326	HINGE,BASE MNT, COM ENG PKG	1
46	116328	MOUNT,DOOR WLDMT,COM ENG PKG	1

Engine - 25 HP Upper Deck Package

ITEM	PART NUMBER	DESCRIPTION	QTY.
47	116330	FITTING 1.25F 37-1.25 BARB 90	1
48	117873	FITTING,1.63-12 SAE-1 25H/B45	1
49	119206	HINGE, DOOR ENG DRV, 25HP	2
50	119445	EXHAUST EXT WLDMT 25HP E/P	1
51	119553	CONNECTOR,O-RING/37FL,20-16	1
52	120659	ISOLATOR, KOHLER 25HP MOUNT	2
53	120660	ADAPTER #12-O/RFEM-12#FL M	1
54	120661	VALVE,HYD PRES,#12SAE,2500P	1
55	128774	CABLE, THROTTLE 40'	2
56	129264	HYD TANK WLDMT, 30G E/P	1
57	138209	ADAPTER, HYD 45 #12, MAOLE-FEM ORB	2
58	143850	HOSE, 3/4 X 35, SAE 37, #12STR-#12STR	1
59	166766	CARBON CANISTER,FUEL TANK,GAS	1
60	169531	TANK,FUEL PLSTC,6 GAL,LOW PERM	1
61	169532	HOSE, FUEL,1/4 LOW PERM, CARB	1
62	170109	FITTING,1/4MPT TO MALE QD,FORC	1
63	170110	FITTING, 5/16 BARB TO FEMALE QD, FORCE	1
64	170111	FITTING,1/4MPT TO MALE QD,SUZU	1
65	170112	FITTING, 5/16 BARB TO FEMALE QD, SUZUKI	
66	173860	FITTING,1/4 HOSE BARBX1/4 FNPT	2
67	178428	SWITCH & HARNESS KIT KOLHER UD	1
68	178638	SPRING CLAMP, 1/2"OD FUEL HOSE	8
69	179090	SPRING CLAMP,7/16"OD FUEL HOSE	2
70	186811	PUMP HYDRAULIC GEAR 0.77CID	1
71	189308	ENGINE, KOHLER, 25HP, EFI, PUMP MNT	1
72	189309	DECAL, EFI ENG PKG INSTR	1
73	189310	DECAL, START, ENG PKG	1
74	189311	DECAL, THROTTLE, ENG PKG	1
75	189364	WELDMENT, HOOD ENG PKG, 25HP EFI	1
76	189369	PLATE, FUEL HOSE CLAMP	1
77	193904	HOSE, 1-1/4 X 7-1/2 SUCTION	1
78	203102-12-12S	ADAPTER,TEE, #12, SAE37 SWIVL	1
79	900598-12S	PLUG, O-RING BOSS #12	1
80	2481X	BATTERY 12 VOLT	1
81	199105	FUEL FILTER KOHLER, 25-050-42-S (NOT SHOWN)	1

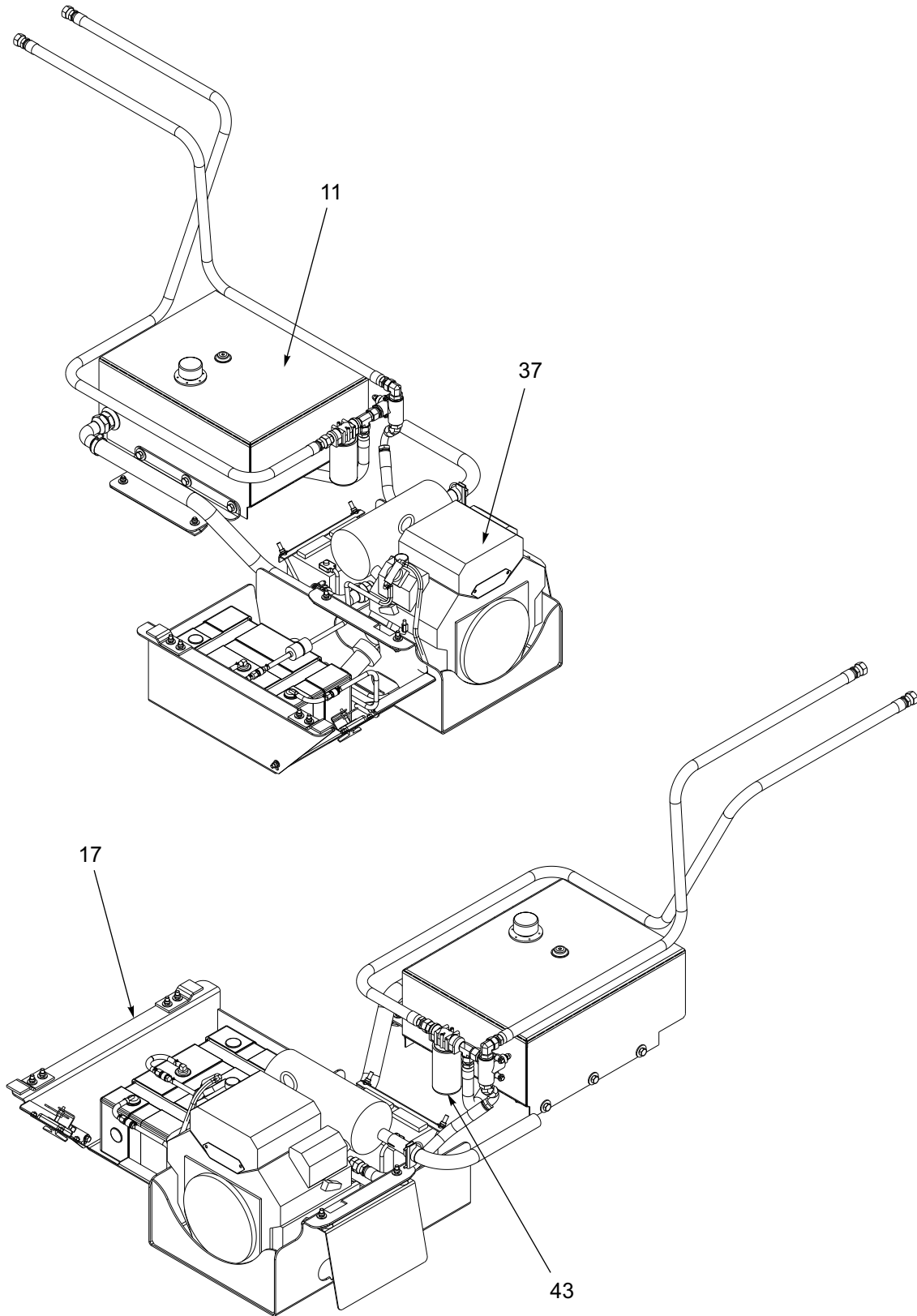


Figure 1-88: Engine - 25 HP Slope Package (1 of 4)

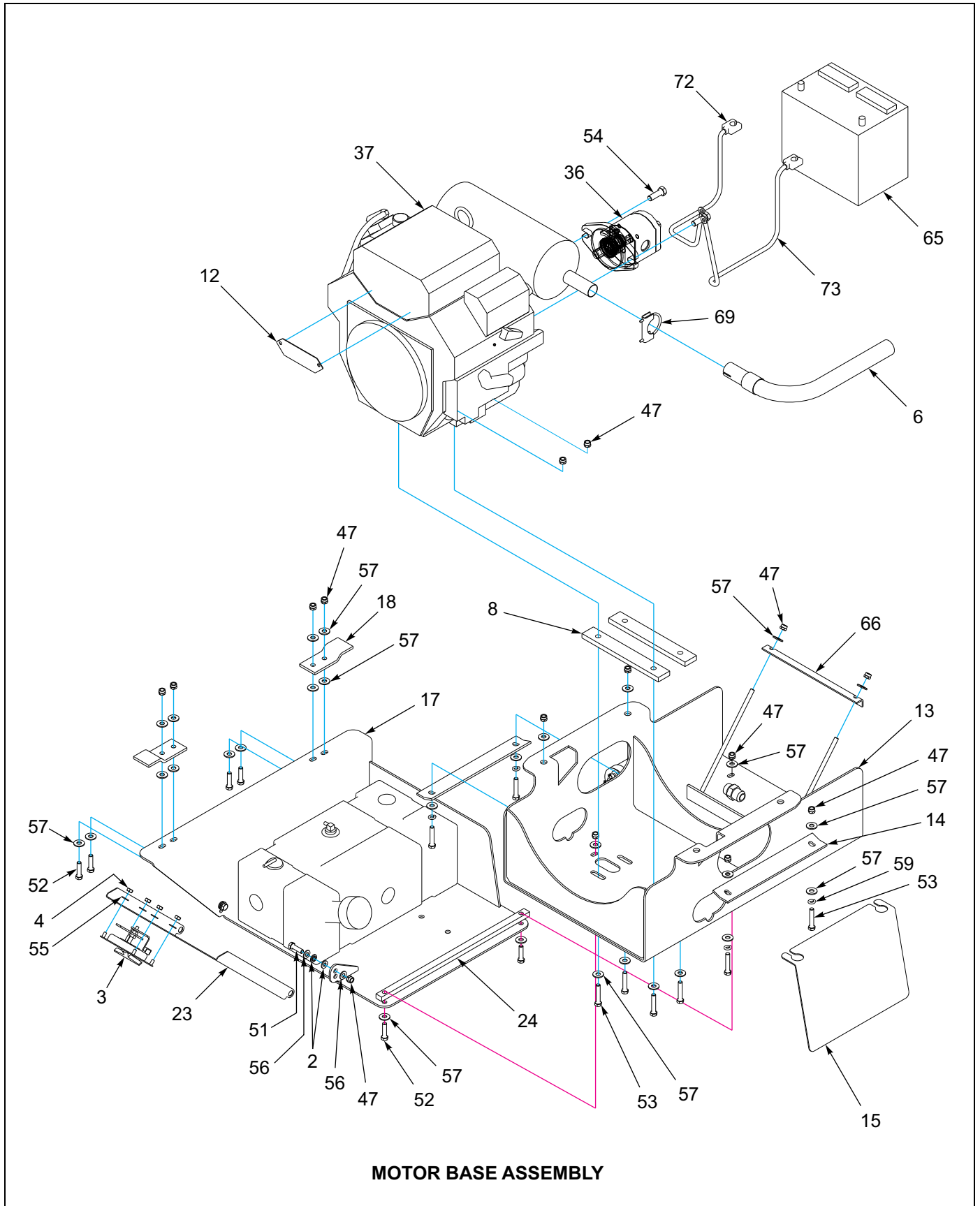
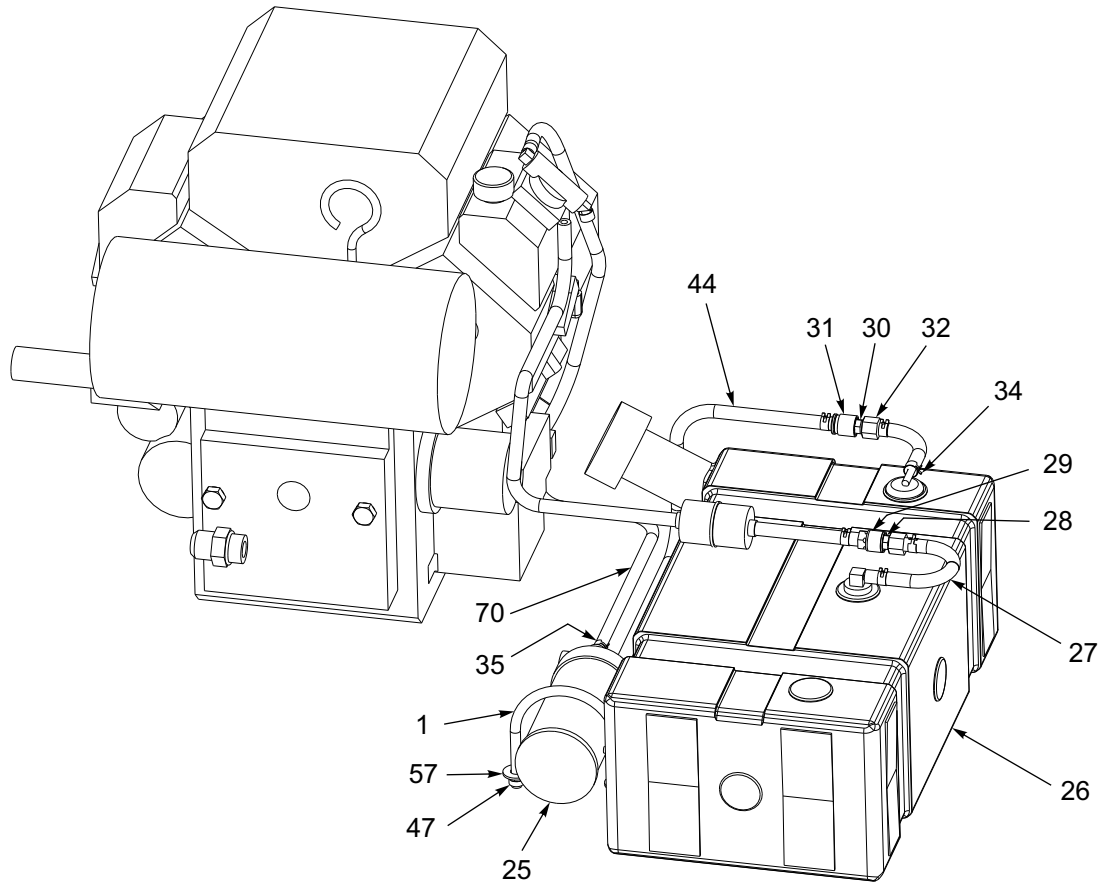
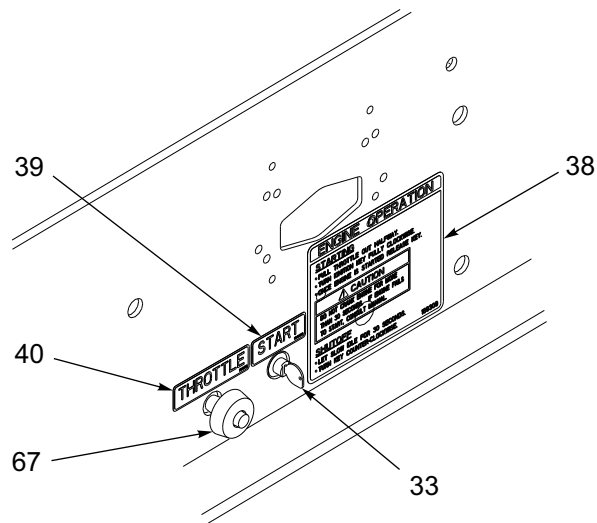


Figure 1-89: Engine - 25 HP Slope Package (2 of 4)



FUEL SYSTEM INSTALLATION



CONTROLS & DECALS

Figure 1-90: Engine - 25 HP Slope Package (3 of 4)

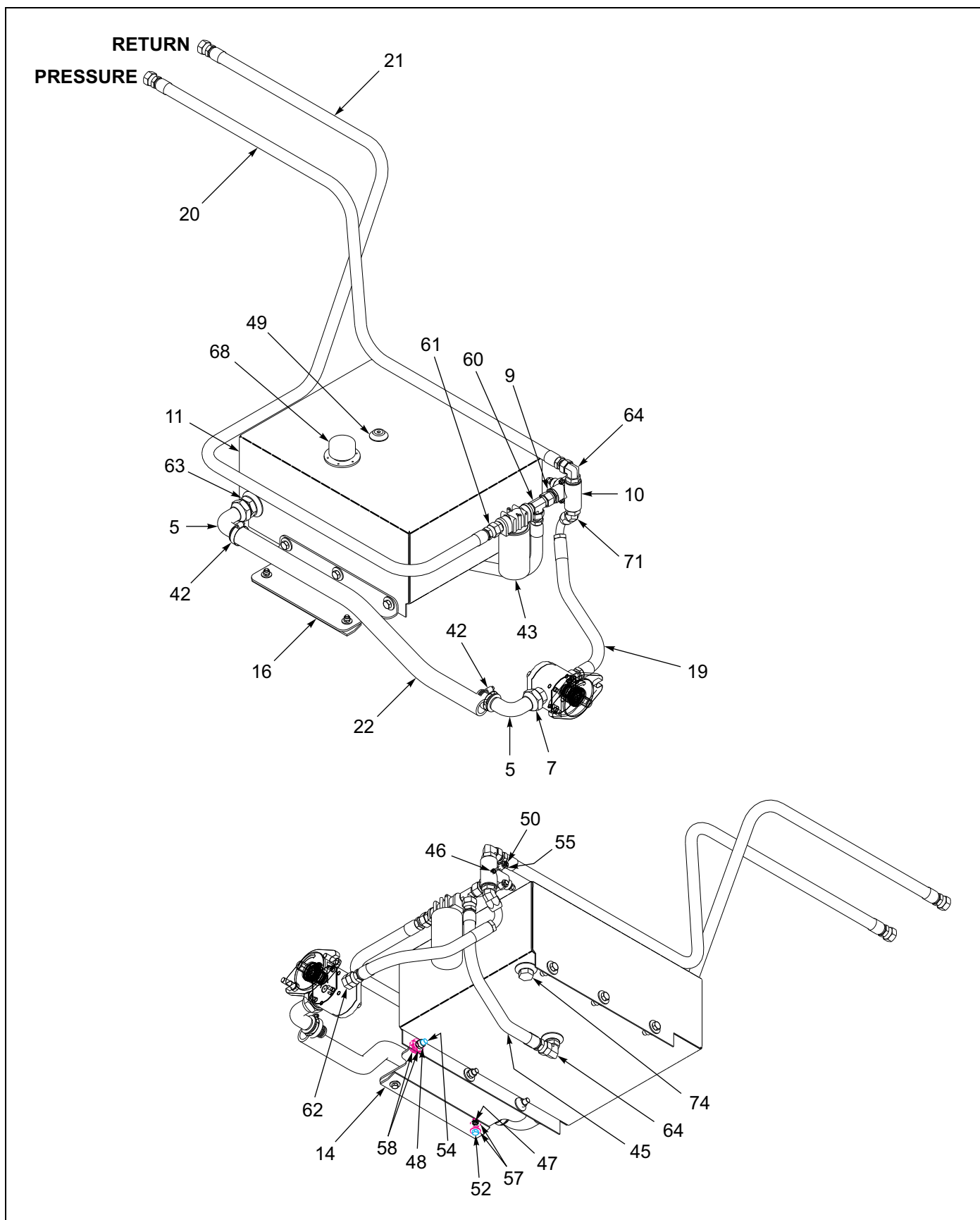


Figure 1-91: Engine - 25 HP Slope Package (4 of 4)

Engine - 25 HP Slope Package

ITEM	PART NUMBER	DESCRIPTION	QTY.
	138160	ENG PKG 27HP 930B SLOPE	
1	110578	U-BOLT, 3/8-16 x 3-1/8 x 4-1/8	1
2	112248	NYLON SHOULDER WASHER	4
3	114814	LATCH FOLDING T LOCKABLE	1
4	115877	NUT HVY HEX 1/4-20 GR5	4
5	116330	FITTING 1.25F 37-1.25 BARB 90	2
6	119445	EXHAUST EXT WLDMT 25HP E/P	1
7	119553	CONNECTOR,O-RING/37FL,20-16	1
8	120659	ISOLATOR, KOHLER 25HP MOUNT	2
9	120660	ADAPTER #12-O/RFEM-12#FL M	1
10	120661	VALVE,HYD PRES,#12SAE,2500P	1
11	120662	HYD TANK WLDMT, 15G E/P	1
12	123014	PLATE, MOTOR FRONT, 25HP E/P	1
13	138114	BASE WLDMT ENG PKG 930B	1
14	138144	CLAMP ENG PKG 930B	3
15	138145	SHIELD ENG PKG 930B	1
16	138146	BRACKET TANK MOUNT 930B	1
17	138192	TRAY WLDMT GAS TANK 930 ENG	1
18	138206	MOUNT TRAY GAS TANK	2
19	138818	HOSE ASSY 3/4X24 SAE37 STR 90	1
20	139071	HOSE 3/4 X 72 SAE 37 STR-STR	1
21	139072	HOSE 3/4X105SAE 37 STR-STR	1
22	139073	HOSE 1-1/4ID X 33IN SUCTION	1
23	156171	DOOR GAS TANK TRAY	1
24	156173	SPACER 1/2" FUEL TANK TRAY	1
25	166766	CARBON CANISTER,FUEL TANK,GAS	1
26	169531	TANK,FUEL PLSTC,6 GAL,LOW PERM	1
27	169532	HOSE, FUEL,1/4 LOW PERM, CARB	3
28	170109	FITTING,1/4MPT TO MALE QD,FORC	1
29	170110	FITTING,5/16BARB TO FE QD,FORC	1
30	170111	FITTING,1/4MPT TO MALE QD,SUZU	1
31	170112	FITTING,5/16BARB TO FE QD,SUZU	1
32	173860	FITTING,1/4 HOSE BARBX1/4 FNPT	2
33	178428	SWITCH & HARNESS KIT KOHLER UD	1
34	178638	SPRING CLAMP, 1/2"OD FUEL HOSE	8
35	179090	SPRING CLAMP,7/16"OD FUEL HOSE	2
36	186811	PUMP HYDRAULIC GEAR 0.77CID	1
37	189308	ENGINE,KOHLER,25HP,EFI,PUMP	1
38	189309	DECAL,EFI ENG PKG INSTR	1
39	189310	DECAL, START, ENG PKG	1
40	189311	DECAL, THROTTLE, ENG PKG	1
41	1410792	OIL, ENGINE 10W-30 (NOT SHOWN)	.5
42	1-181-010046-7	CLAMP,HOSE 1-1/16 TO 2DIA #24	2
43	1-295-010001	FILTER, RETURN LINE	1
44	1-316-010013	HOSE,1/4 LOW PRESSURE FUEL	3
45	1-397-010304025	HOSE ASSY,3/4X25,SAE37,STR-ST	1
46	1-512-010005-01	NUT,HEX,SLFLKG GRB 1/4-20	2
47	1-512-010005-05	NUT, HEX, SLFLKG GRB 3/8-16	22

Engine - 25 HP Slope Package

ITEM	PART NUMBER	DESCRIPTION	QTY.
48	1-512-010005-09	NUT,HEX,SLFLKG, 1/2-13 GRB	6
49	1-560-010002-04	PLUG, PIPE, 1/2NPT	1
50	1-654-010047-09	SCREW,HX CP,1/4-20UNCX1-3/4G5	2
51	1-654-010051-06	SCREW,HEX CAP 3/8-16UNCX1-1/4	2
52	1-654-010051-07	SCREW,HEX CAP,3/8-16UNCX1-1/2	8
53	1-654-010051-09	SCREW,HEX CAP,3/8-16UNCX2 GR5	8
54	1-654-010055-03	SCREW,HEX CAP,1/2-13UNCX1-1/2	8
55	1-861-010032-07	WASHER,FLAT 1/4 ZP	6
56	1-861-010032-10	WASHER, FLAT 3/8" N ZP/CD	4
57	1-861-010032-11	WASHER, FLAT 3/8 W ZP/CD	36
58	1-861-010032-15	WASHER, FLAT 1/2 W ZP/CD	12
59	1-861-010034-11	WASHER, LKG HLCL SPR, 3/8	4
60	102-0204	ADAPTER EXTERNALPIPE/37 FLARE	1
61	2021-12-12S	ADAPTER 3/4M PIPE X1-1/16MJIC	1
62	202702-12-12S	ADAPTER,#12 O-RING X #12 TUBE	1
63	202702-20-20S	ADAPTER #20 O-RING #20 TUBE	1
64	2062-12-12S	ADAPTER,90,#12 O-RINGX#12TUBE	2
65	2481X	BATTERY 12 VOLT	1
66	3-120-010124	BATTERY CLAMP BRKT	1
67	3-155-010012	CABLE THROTTLE	1
68	3-162-010001	FILLER BREATHER STRAINER ASSY	1
69	3-182-010028	CLAMP MUFFLER	1
70	3-316-010008	3/16 ID FUEL HOSE	3
71	40-0667-02	ELBOW,45,,ST-37 12-12	1
72	514-9045-26	CABLE ASSY BATTERY POSITIVE	1
73	514-9073-18	CABLE ASSY BATTERY NEG 18 LNG	1
74	900598-12S	PLUG, O-RING BOSS #12	1

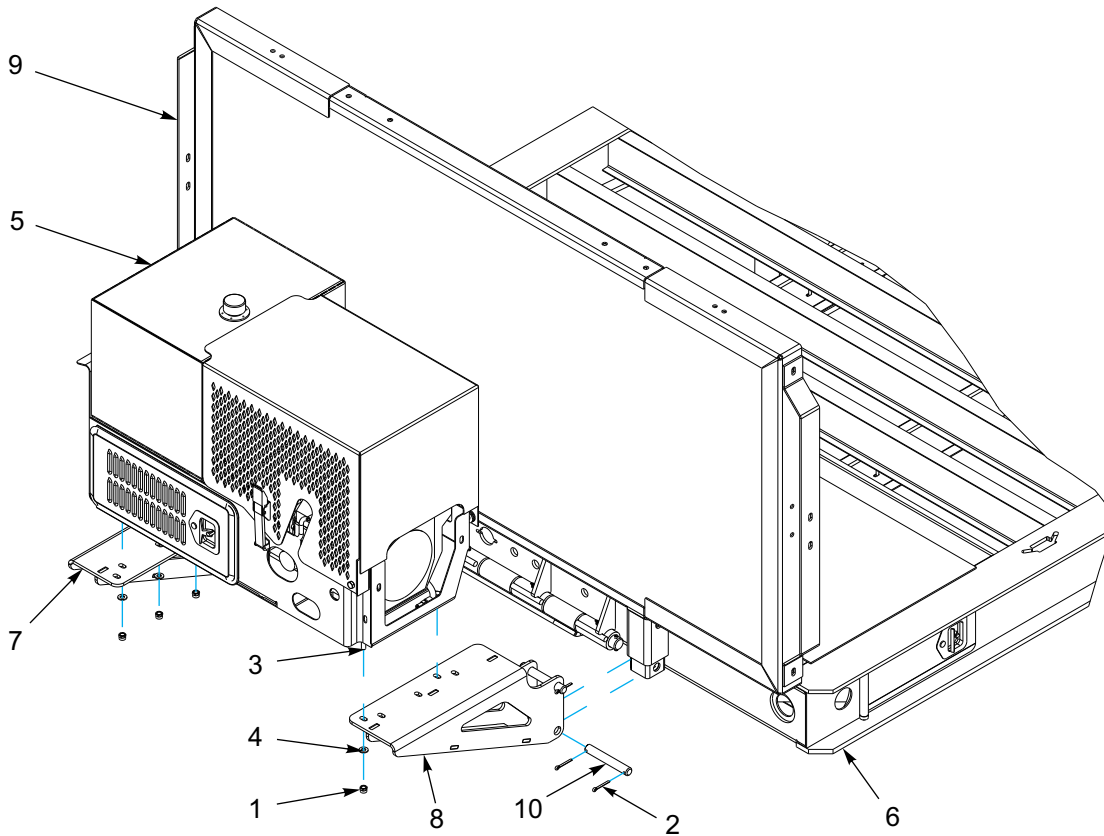


Figure 1-92: Engine - Front Mount Extension Package Installation

Engine - Front Mount Extension Package Installation

ITEM	PART NUMBER	DESCRIPTION	QTY.
	147471	FRONT EXTENSION ENGINE PKG MOUNT INSTALLATION	
1	1-512-010005-09	NUT, HEX LOCK 1/2-13 GRB	5
2	1-557-010362-63	PIN, COTTER 1/4 X 2	8
3	1-654-010055-03	SCREW, HEX HEAD CAP 1/2-13 X 1-1/2 GR5	5
4	1-861-010032-14	WASHER, FLAT 1/2N	10
5	123166	ENGINE PKG 27 HP U/D (SEE PAGE 1-148)	REF
6	-----	FRAME ASSEMBLY, G/N	REF
7	147468	BRACKET WELDMENT, RH ENG MOUNT	1
8	147469	BRACKET WELDMENT, LH ENG MOUNT	1
9	3-141-010121-2	BULKHEAD INSTALLATION (SEE PAGE 1-126)	REF
10	3-557-010380	PIN, 1 X 6-7/8	4

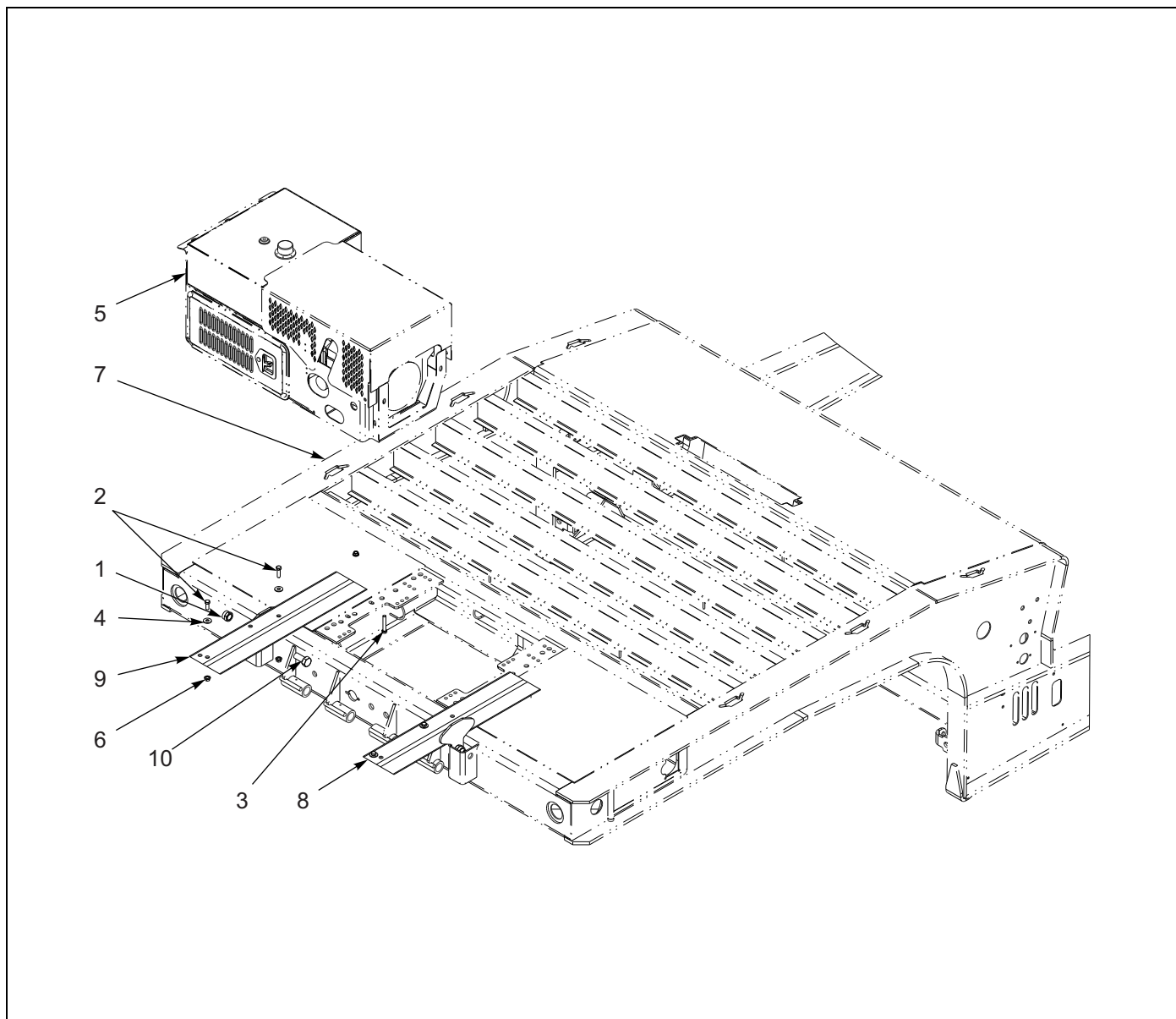


Figure 1-93: Engine - Front Mount Installation

Engine - Front Mount Installation

ITEM	PART NUMBER	DESCRIPTION	QTY.
	136580	FRONT MOUNT ENGINE INSTALLATION	
1	1-512-010005-19	NUT, HEX LOCK 1-8 GRB	2
2	1-654-010055-02	SCREW, HEX HEAD CAP 1/2-13 X 1-1/4 GR5	4
3	1-654-010055-10	SCREW, HEX HEAD CAP 1/2-13 X 3-1/4 GR5	2
4	1-861-010032-15	WASHER, FLAT 1/2W	8
5	123166	ENGINE PACKAGE 27 HP U/D (SEE PAGE 1-148)	REF
6	124971	NUT, FLANGE HEAD SPIRALOCK 1/2-13	6
7	130662	GOOSENECK WELDMENT	REF
8	136581	MOUNT WELDMENT LH FRONT ENGINE PACKAGE	1
9	136582	MOUNT WELDMENT RH FRONT ENGINE PACKAGE	1
10	137943	SCREW, HEX HEAD CAP 1-8 X 2-1/4 GR5	2

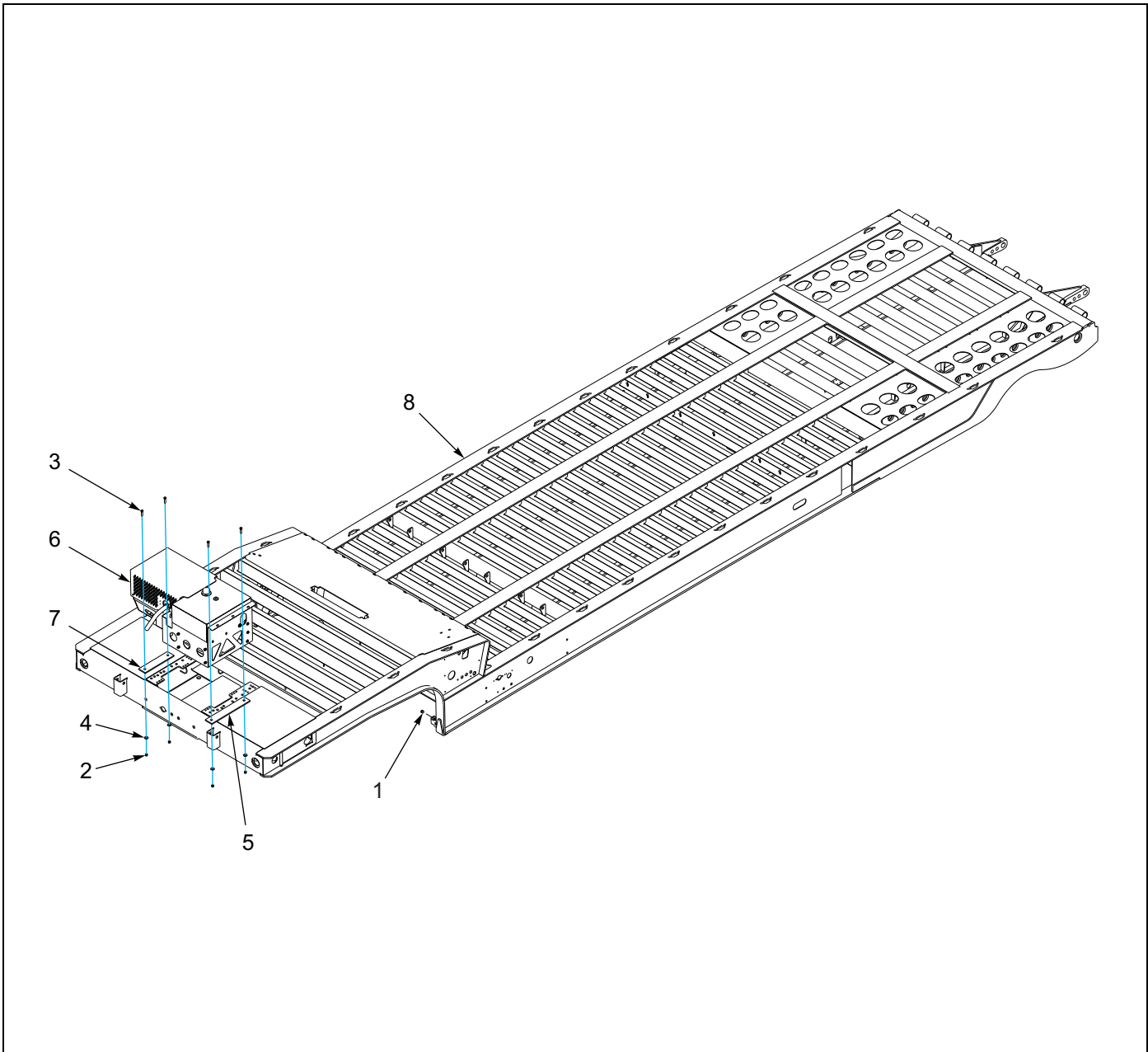


Figure 1-94: Engine - Mount Package W/O Winch

Engine - Mount Package W/O Winch

ITEM	PART NUMBER	DESCRIPTION	QTY.
	148949	ENGINE MOUNT PACKAGE W/O WINCH	
1	1-007-010025	PLUG, 3/4-16	2
2	1-512-010005-09	NUT, HEX LOCK 1/2-13 GRB	4
3	1-654-010055-05	SCREW, HEX HEAD CAP 1/2-13 X 2 GR5	4
4	1-861-010032-15	WASHER, FLAT 1/2W	4
5	120478	PLATE, U/D ENGINEMOUNT	1
6	123166	ENGINE PACKAGE, 27 HP U/D (SEE PAGE 1-148)	REF
7	124555	PLATE, U/D ENGINE MOUNT	1
8	----	FRAME WELDMENT	REF

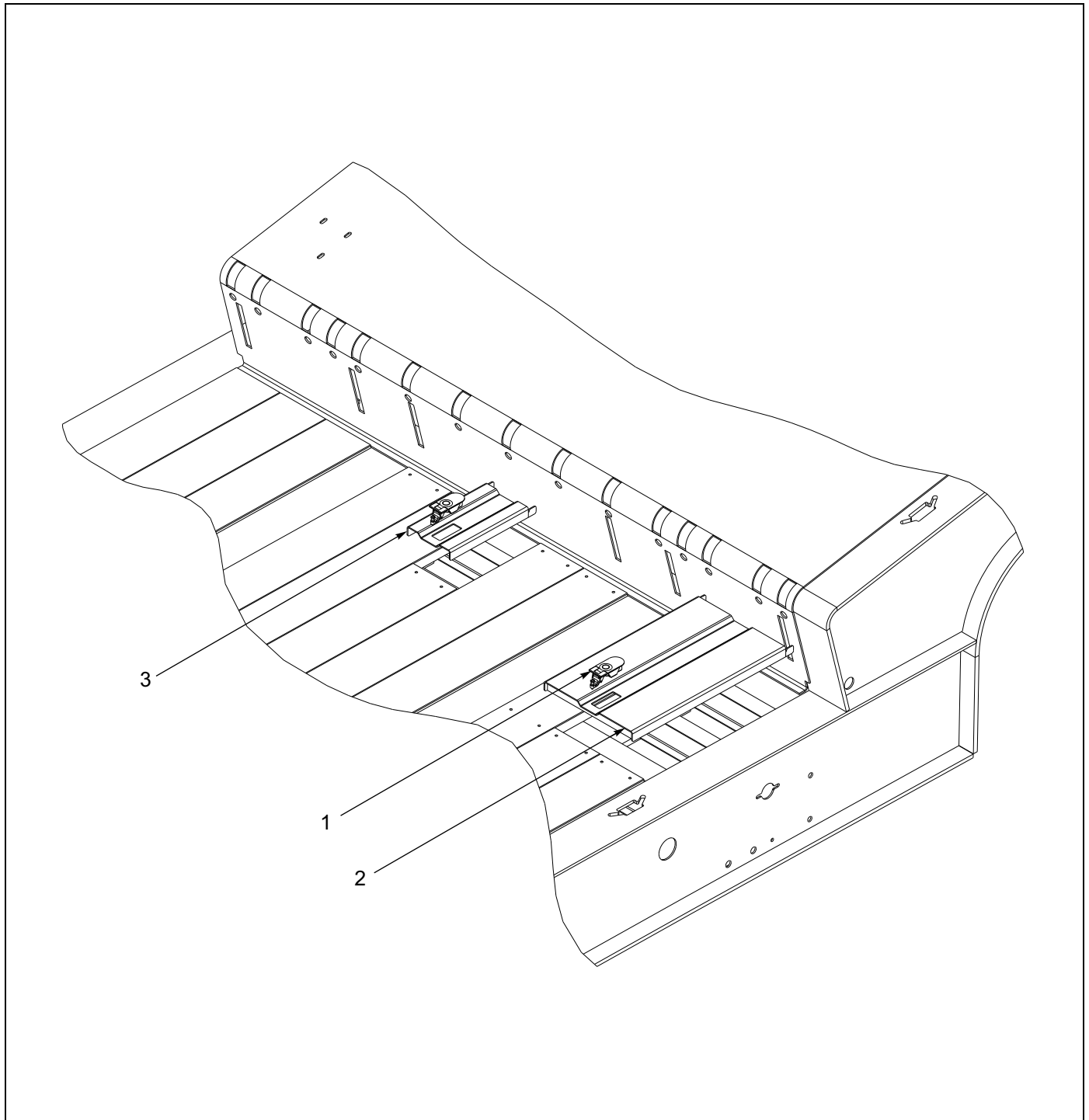


Figure 1-95: Engine - Slope Cover Installation (Used On Trailers W/O Ramp)

Engine - Slope Cover Installation (Used On Trailers W/O Ramp)

ITEM	PART NUMBER	DESCRIPTION	QTY.
	140820	SLOPE ENGINE COVER INSTALLATION	
1	121526	LATCH, COMPRESSION	2
2	140821	COVER WELDMENT, ENGINE	1
3	140824	COVER, HYD TANK	1

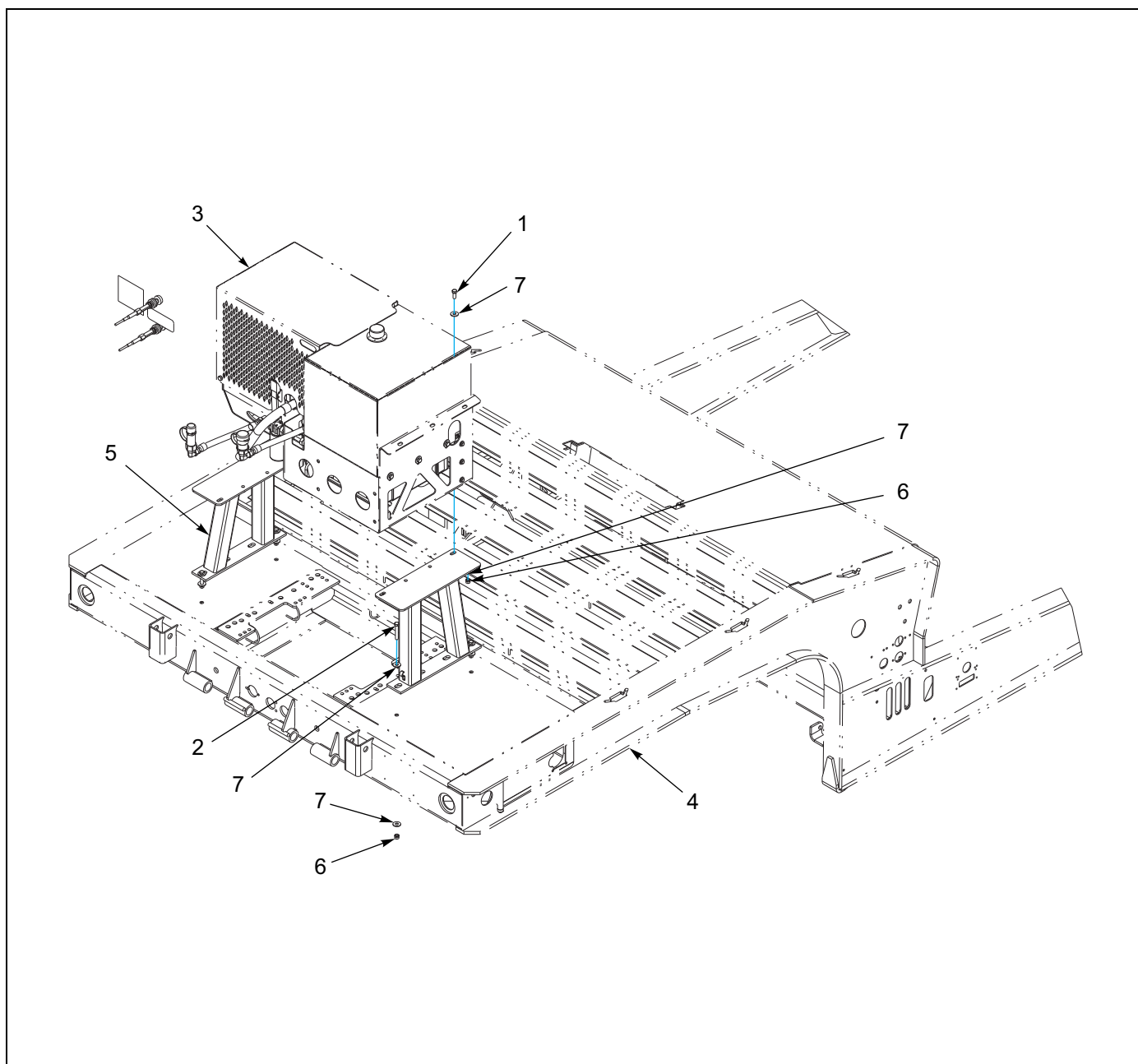


Figure 1-96: Engine - Upper Deck Stand Installation

Engine - Upper Deck Stand Installation

ITEM	PART NUMBER	DESCRIPTION	QTY.
	136578	UPPER DECK STAND INSTALLATION	
1	1-654-010055-03	SCREW,HEX CAP,1/2-13UNCX1-1/2	4
2	1-654-010055-09	SCREW,HX CP,1/2-13UNCX3 GR5	4
3	123166	ENG PKG 27 HP U/D 317 (SEE PAGE 1-148)	REF
4	----	UPPER DECK FRAME WELDMENT	REF
5	134857	MOUNT WLDMT ENG PKG 318-186	2
6	1-512-010005-09	NUT,HEX,SLFLKG, 1/2-13 GRB	8
7	1-861-010032-15	WASHER, FLAT 1/2 W ZP/CD	16

Hydraulic Kits - Options

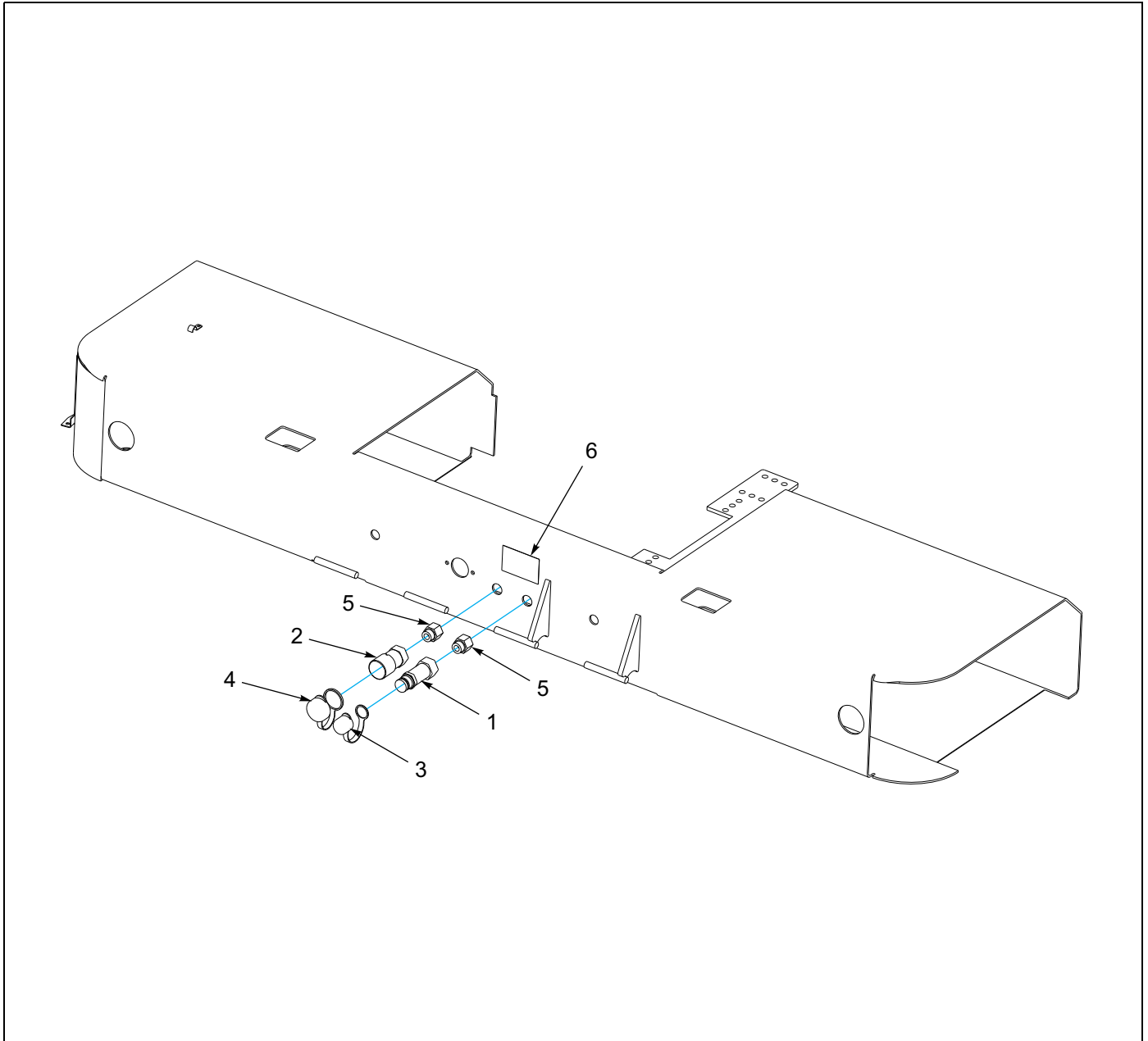


Figure 1-97: Hydraulic Conversion Kit - Ball to Flat

Hydraulic Conversion Kit - Ball to Flat

ITEM	PART NUMBER	DESCRIPTION	QTY.
	105902	HYDRAULIC CONVERSION KIT, BALL TO FLAT	
1	105479	COUPLER, FLAT FACE MALE NOSE	1
2	105480	COUPLER, FLAT FACE FEMALE BODY	1
3	105481	COUPLER, DUST CAP MALE	1
4	105482	COUPLER, DUST CAP FEMALE	1
5	2216-12-12S	INTERNAL PIPE O-RING BOSS	2
6	105822	DECAL, HYD COUPLER	1

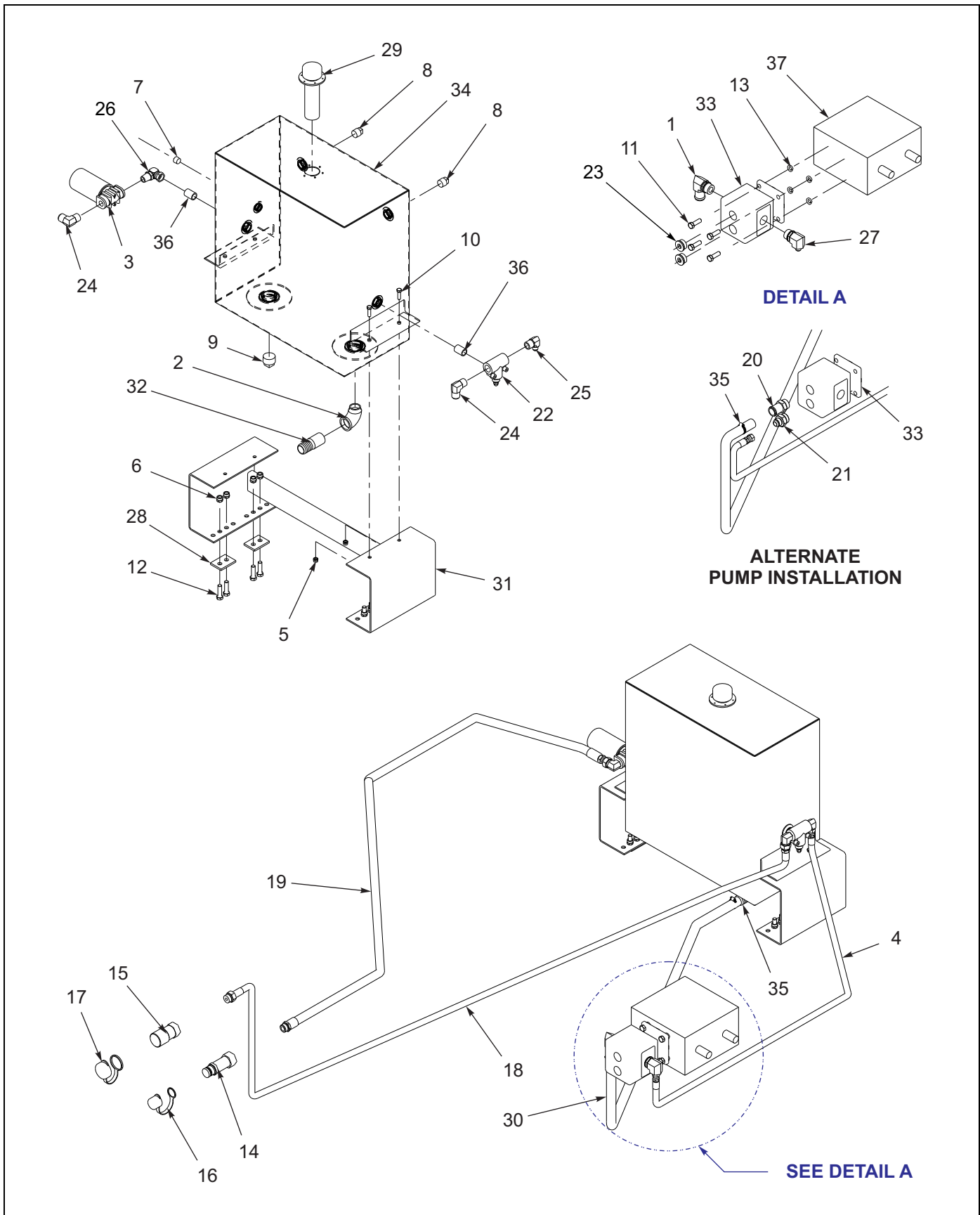


Figure 1-98: Hydraulic Wet Kit Items - 30 Gallon

Hydraulic Wet Kit Items - 30 Gallon

ITEM	PART NUMBER	DESCRIPTION	QTY.
	107498	HYDRAULIC WET KIT W/ PTO INSTALLED	
	107499	HYDRAULIC WET KIT W/ PTO NOT INSTALLED	
	107500	HYDRAULIC WET KIT W/O PTO NOT INSTALLED	
1	1-007-010006	90 EL 1-5/16 O-RING-1-1/4 HOS	1
2	1-1/4ST ELL	PIPE ELBOW BLK 90 ST	1
3	1-295-010001	FILTER, RETURN LINE	1
	1-295-010002	ELEMENT RETURN LINE FILTER	1
4	1-397-010301100	HOSE ASSY,1/2X100 SAE 37 STR	1
5	1-512-010005-05	NUT, HEX, SLFLKG GRB 3/8-16	4
6	1-512-010005-09	NUT,HEX,SLFLKG, 1/2-13 GRB	8
7	1-560-010002-04	PLUG, PIPE, 1/2NPT	1
8	1-560-010002-05	PLUG,PIPE, 3/4-14NPTF	2
9	1-560-010002-07	PLUG,PIPE, 1-1/4X11-1/2NPTF	1
10	1-654-010051-06	SCREW,HEX CAP 3/8-16UNCX1-1/4	4
11	1-654-010055-03	SCREW,HEX CAP,1/2-13UNCX1-1/2	4
12	1-654-010055-04	SCREW,HEX CAP,1/2-13UNCX1-3/4	8
13	1-861-010034-13	WASHER, LKG HLCL SPR, 1/2	4
14	105479	COUPLER FLAT FACE MALE NOSE	1
15	105480	COUPLER FLAT FACE FEMALE BODY	1
16	105481	COUPLER DUST CAP MALE	1
17	105482	COUPLER DUST CAP FEMALE	1
18	106759	HOSE 1/2X164,1-1/16O-RG 12FJI	1
19	106760	HOSE 3/4X164 1-1/16O-RG 12SAE	1
20	107513	ADAPTER #16 O-RING X 1-1/4HOS	1
21	12-16 070120	ADAPTER,#12 TUBE/ #16 O-RING	1
22	125130	RD12D HYD BY PASS SRDD	1
23	157330	PLUG, #16 ORB HEX	2
24	2024-12-12S	ADAPTER 90 3/4MPT X3/4M JIC	2
25	2024-12-8S	ELBOW,90,#12NPTX#8 JIC	1
26	2047-12-12S	PIPE SWIVEL 90 MALE 3/4-14	1
27	2062-16-8S	ADAPTER 90 1 BOSSX1/2 37	1
28	3-120-010461	BRACKET,HYD TANK SUPPORT	4
29	3-162-010001	FILLER BREATHER STRAINER ASSY	1
30	3-399-010001	HOSE 1-1/4 SUCTION	8
31	3-482-010503	MOUNT WLDMT, HYD TANK 30GAL	1
32	3-561-010001	HOSE BARB 1-1/4 NPT	1
33	3-591-010001	HYDRAULIC GEAR PUMP	1
34	3-786-010043	TANK WLDMT, 30 GAL	1
35	6828	IDEAL HOSE CLAMP2.25MAX-1.3MI	2
36	C3069X12	NIPPLE HYD 3/4 MPT	2
37	PTO	POWER TAKE OFF	REF

Light Installations - Options

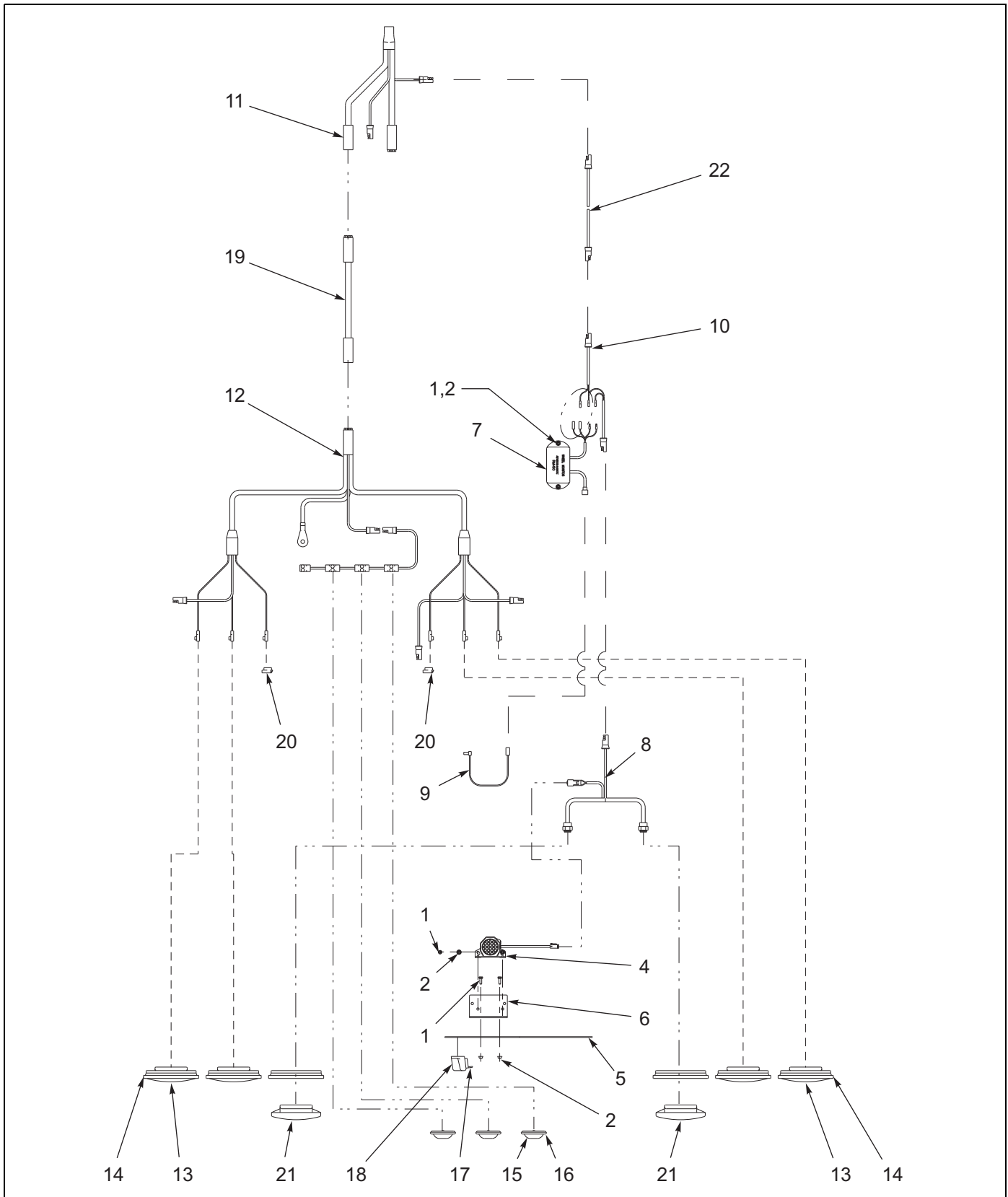


Figure 1-99: Backup Alarm/Light Installation

Backup Alarm/Light Installation

ITEM	PART NUMBER	DESCRIPTION	QTY.
	150329	BACKUP ALARM/LIGHT INSTALLATION	
1	1-654-010047-04	SCREW, HEX HEAD CAP 1/4-20 X 3/4 GR5	6
2	108417	NUT, HEX FLANGE SPIRALOCK 1/4-20	6
4	117997	ALARM, dB ADJUSTING SMART BACKUP	1
5	119531	PLATE, TAG MOUNT	REF
6	127991	BRACKET, BACKUP ALARM MOUNT	1
7	150072	REVERSE DETN MODULE AND SENSOR	1
8	166872	HARNESS, BACKUP LIGHT/ALARM	1
9	137559	SENSOR, DIRECTIONAL CABLE 6.5'	1
10	150074	HARNESS, MODULE/ALARM	1
11	143103	HARNESS, E-CHAIN	REF
12	143104	HARNESS, BUMPER	REF
13	143113	LIGHT, RED LED OVAL STT	REF
14	143114	GROMMET, OVAL	REF
15	143115	LIGHT, RED LED RECTANGLE CLEARANCE	REF
16	143116	GROMMET, RECTANGLE	REF
17	143117	LIGHT, CLEAR LED LICENSE	REF
18	143118	BRACKET, LIGHT LICENSE	REF
19	143166	HARNESS, EXT 48"	REF
20	144608	DUMMY PLUG FOR FEMALE PLUG	2
21	150330	GROTE LED BACKUP CLEAR	2
22	3-368-010252	HARNESS ASSEMBLY, BULKHEAD EXTENSION	1

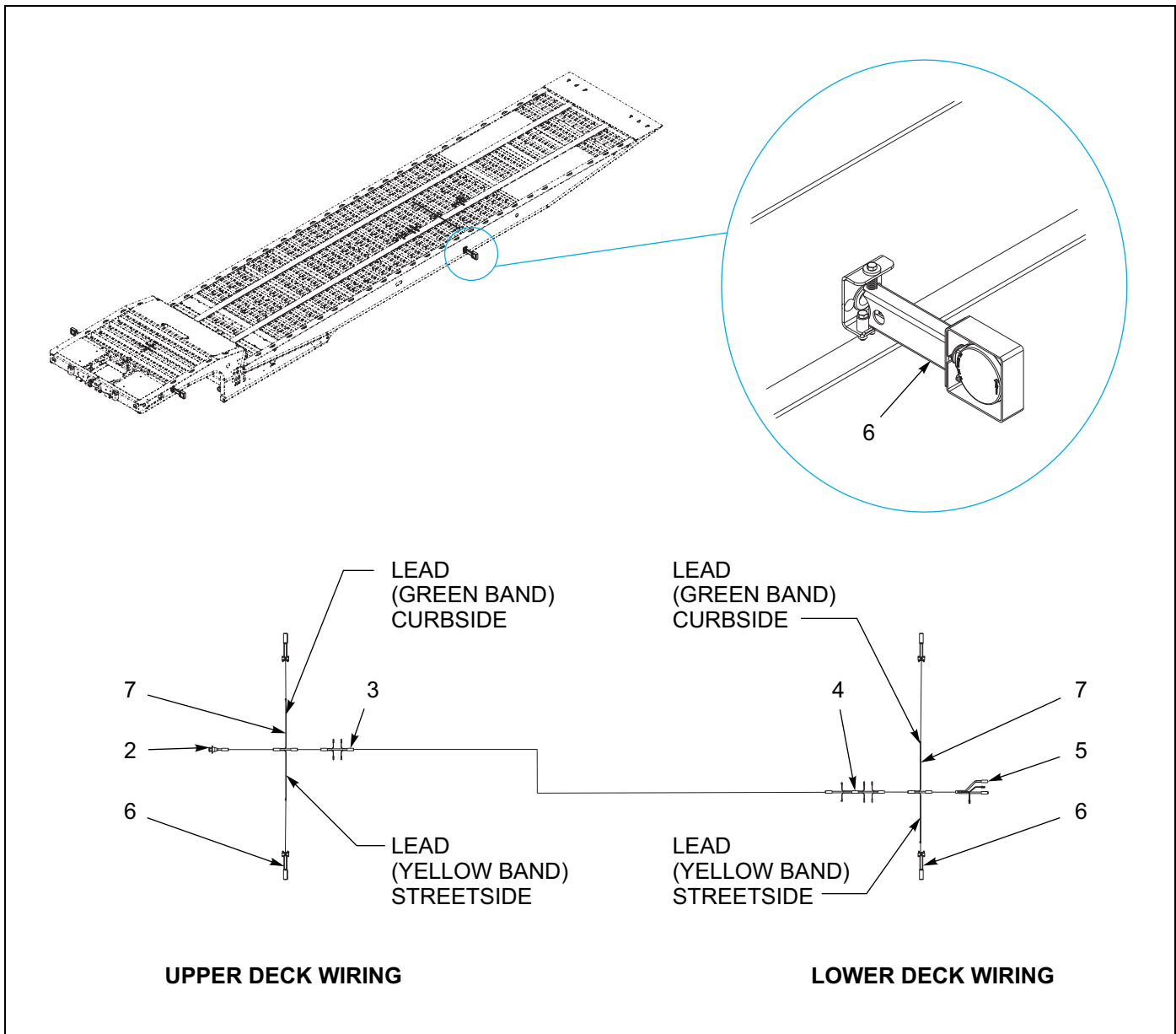


Figure 1-100: Swingout Light Installation

Swingout Light Installation

ITEM	PART NUMBER	DESCRIPTION	QTY.		
	179085	INSTL, SWING-OUT LTS, UPR & LWR DK	*		
	179088	INSTL, SWING-OUT LTS, UPR DK	*		
	179089	INSTL, SWING-OUT LTS, LWR DK	*		
1	1-796-010003-02	TIE, STRAP, PLASTIC .18X14.0	24	12	12
2	143100	HARNESS 7WAY RECP GROTE	REF	REF	REF
3	143101	HARNESS FRONT MAIN GROTE	REF	REF	REF
4	143102	HARNESS BED MAIN GROTE	REF	REF	REF
5	143103	HARNESS ECHAIN GROTE	REF	REF	REF
6	176420	LIGHT ASSY SWING-ARM (SEE PAGE 1-165)	4	2	2
7	176432	HARNESS, JUMPER, EMERGENCY FLA	2	1	1

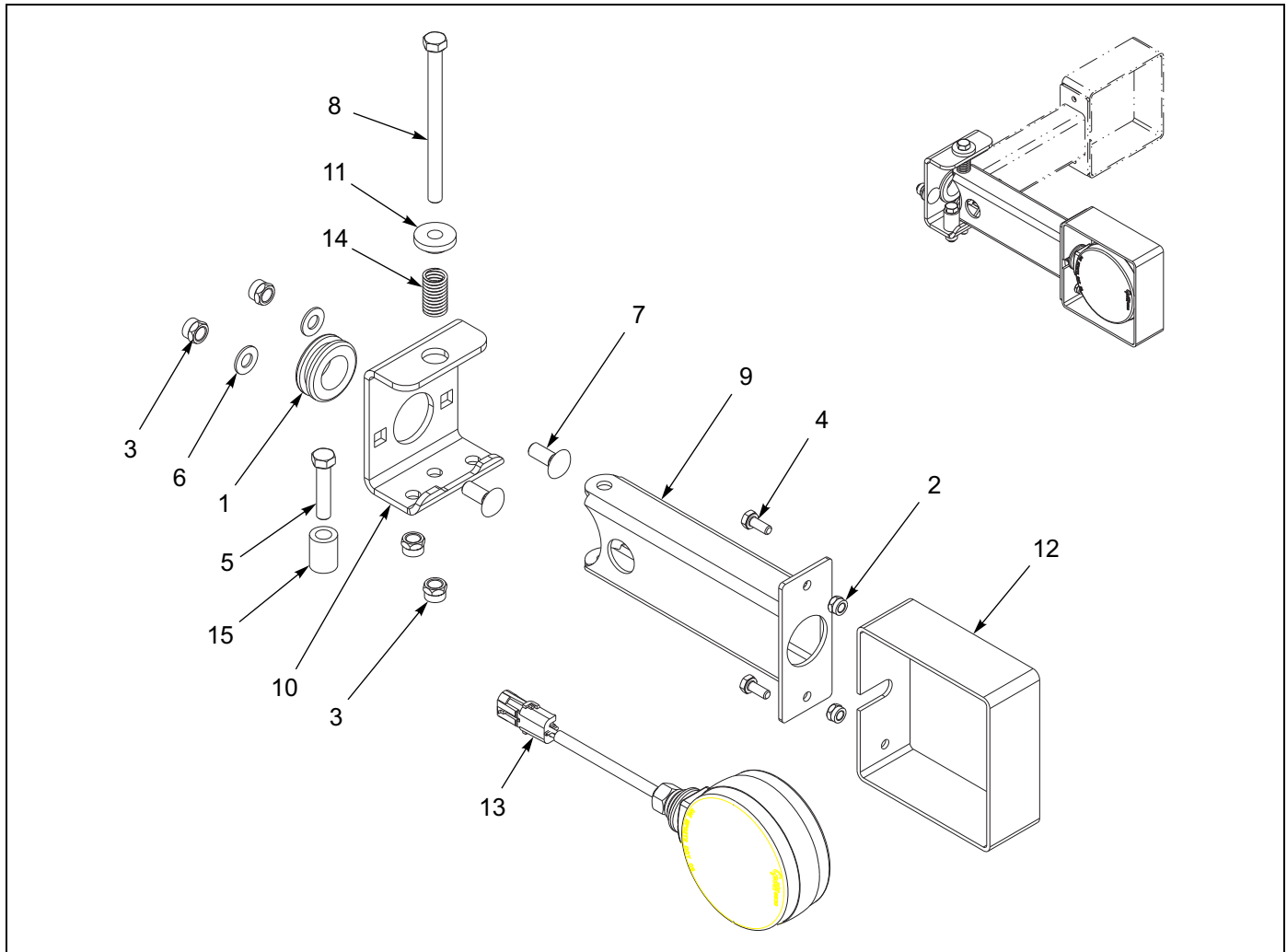


Figure 1-101: Swing-Arm Light Assembly - Turn Signal/Emergency Flasher

Swing-Arm Light Assembly - Turn Signal/Emergency Flasher

ITEM	PART NUMBER	DESCRIPTION	QTY.
	176420	SWING ARM LIGHT ASSEMBLY	
1	1-343-010007	GROMMET	1
2	1-512-010005-01	NUT, HEX LOCK 1/4-20 GRB	2
3	1-512-010005-05	NUT, HEX LOCK 3/8-16 GRB	4
4	1-654-010047-03	SCREW, HEX HEAD CAP 1/4-20 X 5/8 GR5	2
5	1-654-010051-08	SCREW, HEX HEAD CAP 3/8-16 X 1-3/4 GR5	1
6	1-861-010032-10	WASHER, FLAT 3/8N	2
7	111276	SCREW, RD HEAD SQ NECK 3/8-16 X 1 GR5	2
8	172882	SCREW, HEX HEAD CAP 3/8-16 X 5 GR5	1
9	176421	LIGHT SWING-ARM WELDMENT	1
10	176424	BRACKET MOUNTING, SWING-ARM LIGHT	1
11	176425	WASHER, STEP	1
12	176440	MOUNT/GUARD, PEDESTAL LIGHT	1
13	178384	LIGHT, YELLOW LED 4" DOUBLE FACE	1
14	178389	SPRING, COMPRESSION SWING-ARM LIGHT	1
15	2-150-010240	BUSHING, STOP SPRAY SHIELD	1

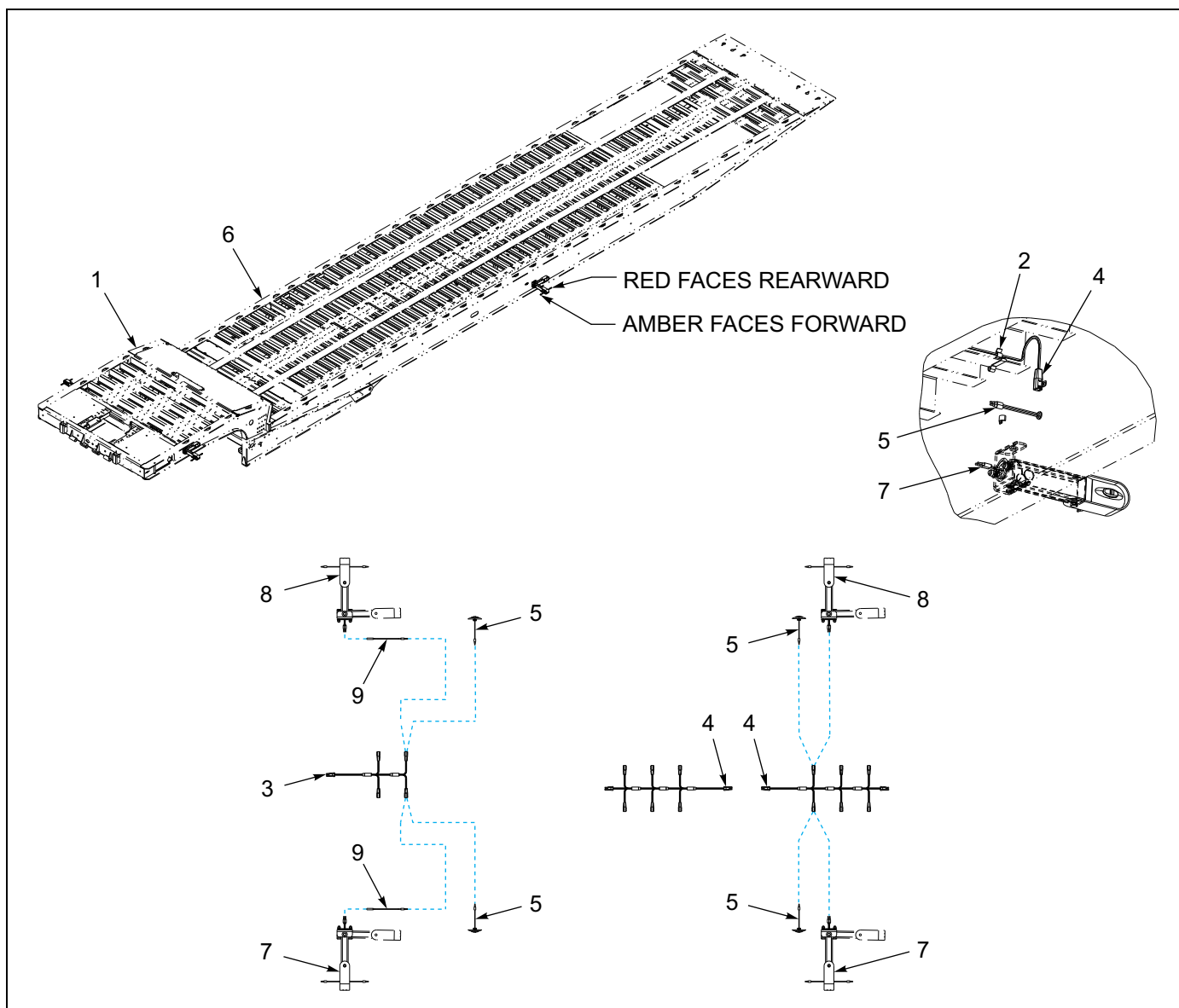


Figure 1-102: Swingout Marker Light Installation - Red/Amber

Swingout Marker Light Installation - Red/Amber

ITEM	PART NUMBER	DESCRIPTION	QTY.		
	191557	INSTL, SWING-OUT MARKER LIGHT, LWR DK	*		
	191558	INSTL, SWING-OUT MARKER LIGHT, UPR DK	*		
	191559	INSTL, SWING-OUT MARKER LIGHT, LWR DK & UPR DK	*		
1	186901	GOOSENECK WLDMT, US 400	REF	REF	REF
2	187833	CLIP HARNESS, CROSS-MEMBER	REF	REF	REF
3	187855	HARNESS MARKER UPR DECK	REF	REF	REF
4	187856	HARNESS MARKER MID DECK	REF	REF	REF
5	187863	LIGHT YEL LED.75CL/MK CLEAR CB	REF	REF	REF
6	189015	FRAME WLDMT 440A-53-102	REF	REF	REF
7	191555	LIGHT ASSY, SWING-ARM MKR, STREET (SEE PAGE 1-167)	1	1	2
8	191556	LIGHT ASSY, SWING-ARM MKR, CURB (SEE PAGE 1-168)	1	1	2
9	191569	HARNESS MARKER LAMP MICRONOVA	--	2	2

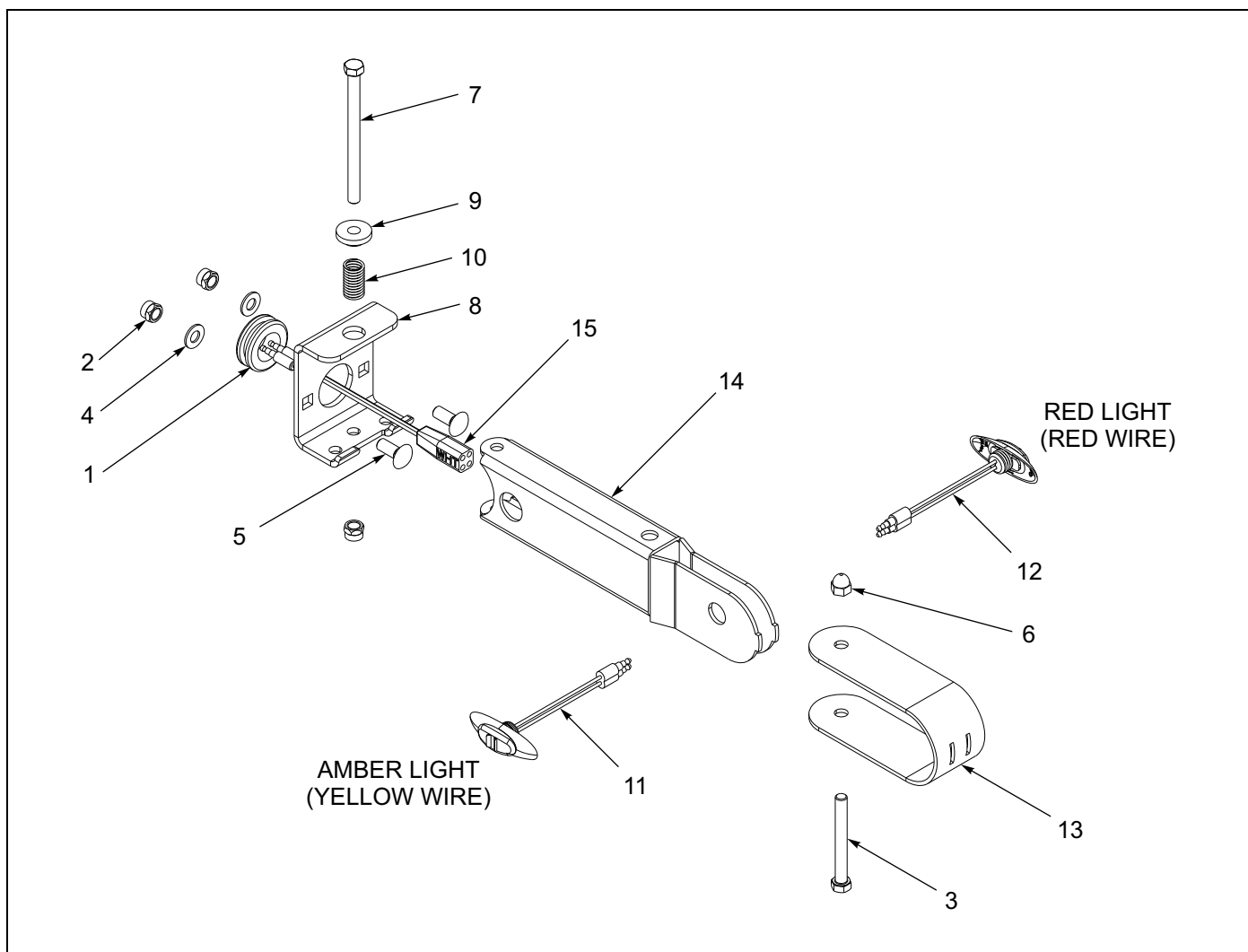


Figure 1-103: Swing-Arm Light Assembly - STREET

Swing-Arm Marker Light Assembly - STREET

ITEM	PART NUMBER	DESCRIPTION	QTY.
	191555	LIGHT ASSY,SWING-ARM MKR,ST	
1	1-343-010007	GROMMET	1
2	1-512-010005-05	NUT, HEX, SLFLKG GRB 3/8-16	3
3	1-654-010051-14	SCREW HX CP 3/8-16UNCX3-1/4G5	1
4	1-861-010032-10	WASHER, FLAT 3/8" N ZP/CD	2
5	111276	SCREW RDHD SQNK 3/8-16X1 GR5	2
6	122154	NUT, HEX ACORN 3/8-16ZP	1
7	172882	SCREW HX CP 3/8-16UNCX5 GR5	1
8	176424	BRACKET MTG SWING-ARM LIGHT	1
9	176425	WASHER STEP	1
10	178389	SPRING, COMPRESSION SWINGARM	1
11	187863	LIGHT YEL LED.75CL/MK CLEAR CB	1
12	187864	LIGHT RED LED.75CL/MK CLEAR CB	1
13	191552	GUARD SWING-OUT LIGHT	1
14	191554	SWING-ARM WLDMT MARKER LIGHT	1
15	191568	HARNESS MARKER LAMP MICRONOVA	1

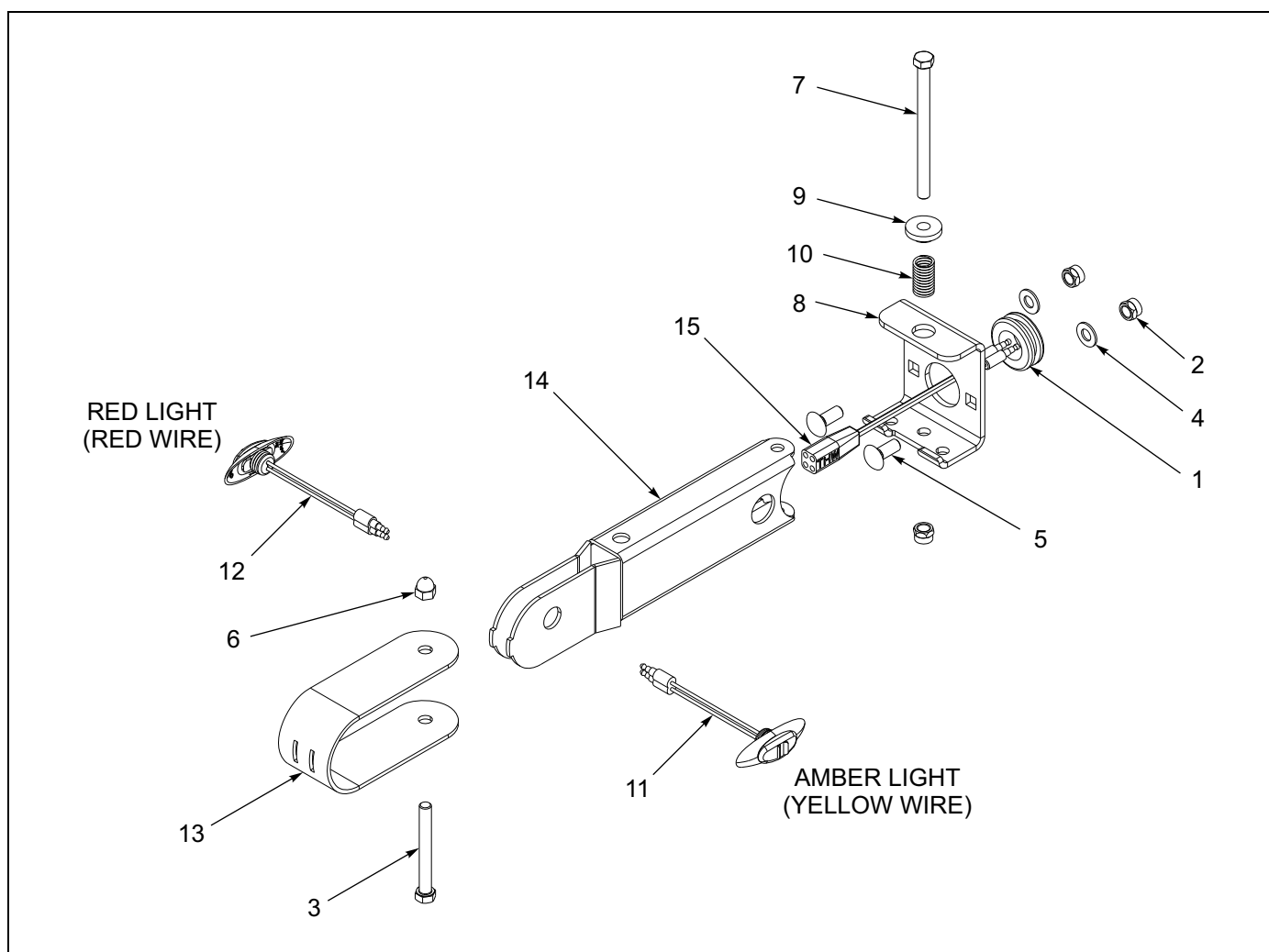


Figure 1-104: Swing-Arm Light Assembly - CURB

Swing-Arm Marker Light Assembly - CURB

ITEM	PART NUMBER	DESCRIPTION	QTY.
	191556	LIGHT ASSY,SWING-ARM MKR,CURB	
1	1-343-010007	GROMMET	1
2	1-512-010005-05	NUT, HEX, SLFLKG GRB 3/8-16	3
3	1-654-010051-14	SCREW HX CP 3/8-16UNCX3-1/4G5	1
4	1-861-010032-10	WASHER, FLAT 3/8" N ZP/CD	2
5	111276	SCREW RDHD SQNK 3/8-16X1 GR5	2
6	122154	NUT, HEX ACORN 3/8-16ZP	1
7	172882	SCREW HX CP 3/8-16UNCX5 GR5	1
8	176424	BRACKET MTG SWING-ARM LIGHT	1
9	176425	WASHER STEP	1
10	178389	SPRING, COMPRESSION SWINGARM	1
11	187863	LIGHT YEL LED.75CL/MK CLEAR CB	1
12	187864	LIGHT RED LED.75CL/MK CLEAR CB	1
13	191552	GUARD SWING-OUT LIGHT	1
14	191554	SWING-ARM WLDMT MARKER LIGHT	1
15	191568	HARNESS MARKER LAMP MICRONOVA	1

Ramps - Options

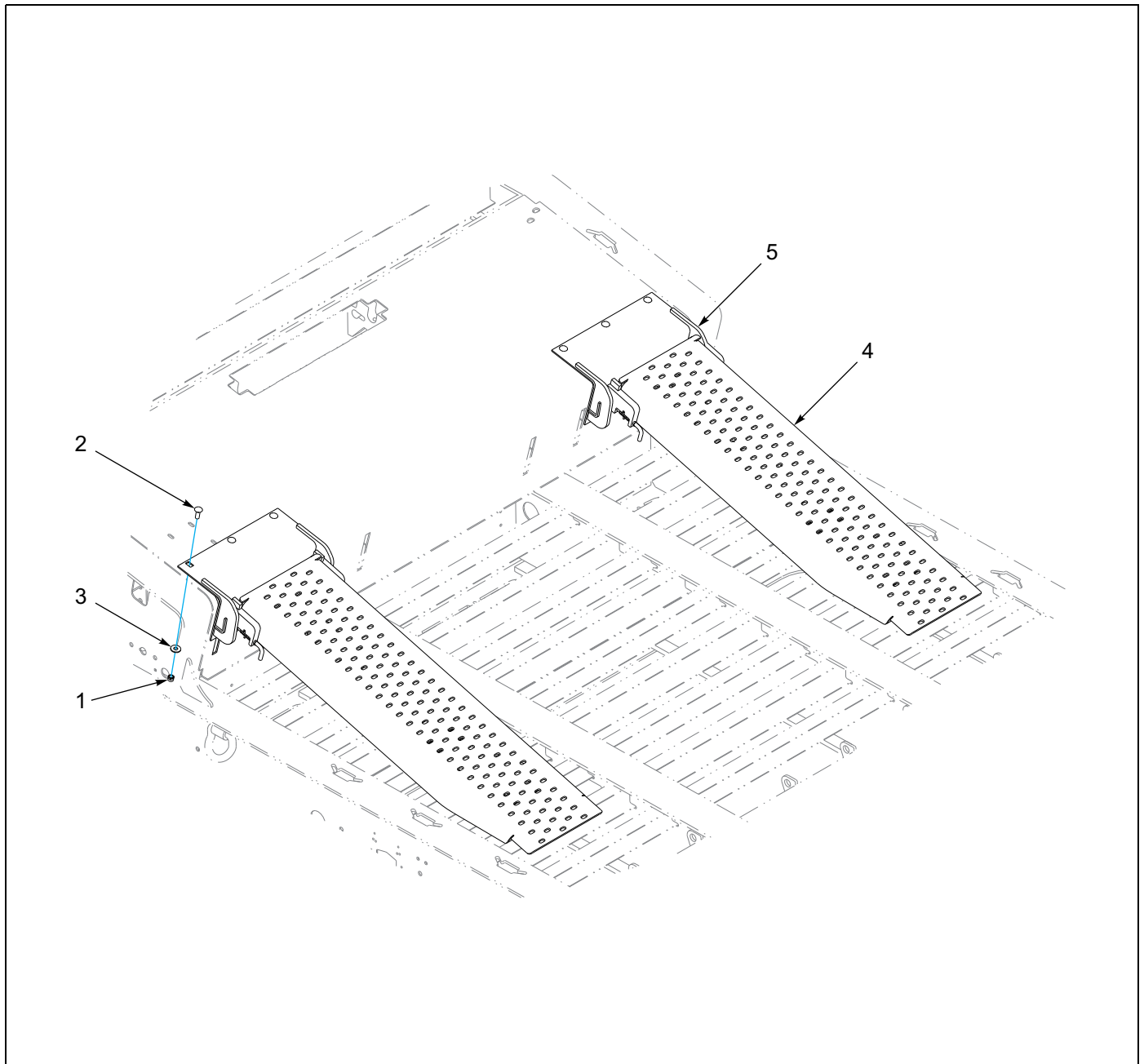


Figure 1-105: Ramp Assembly - Front Slope

Ramp Assembly - Front Slope

ITEM	PART NUMBER	DESCRIPTION	QTY.
	183670	RAMP ASSEMBLY, FRONT SLOPE 930	
1	1-512-010005-09	NUT, HEX SLFLKG, 1/2-13 UNC, GRB	6
2	1-654-010070-03	SCREW, RDH SQ NK, 1/2-13 X 1-1/2	6
3	1-861-010032-15	WASHER, FLAT ZP/CD, 1/2W	6
4	108962	RAMP, ALUM 930 ASSY	REF
5	183665	WLDMT, RAMP BRACKET 900	2

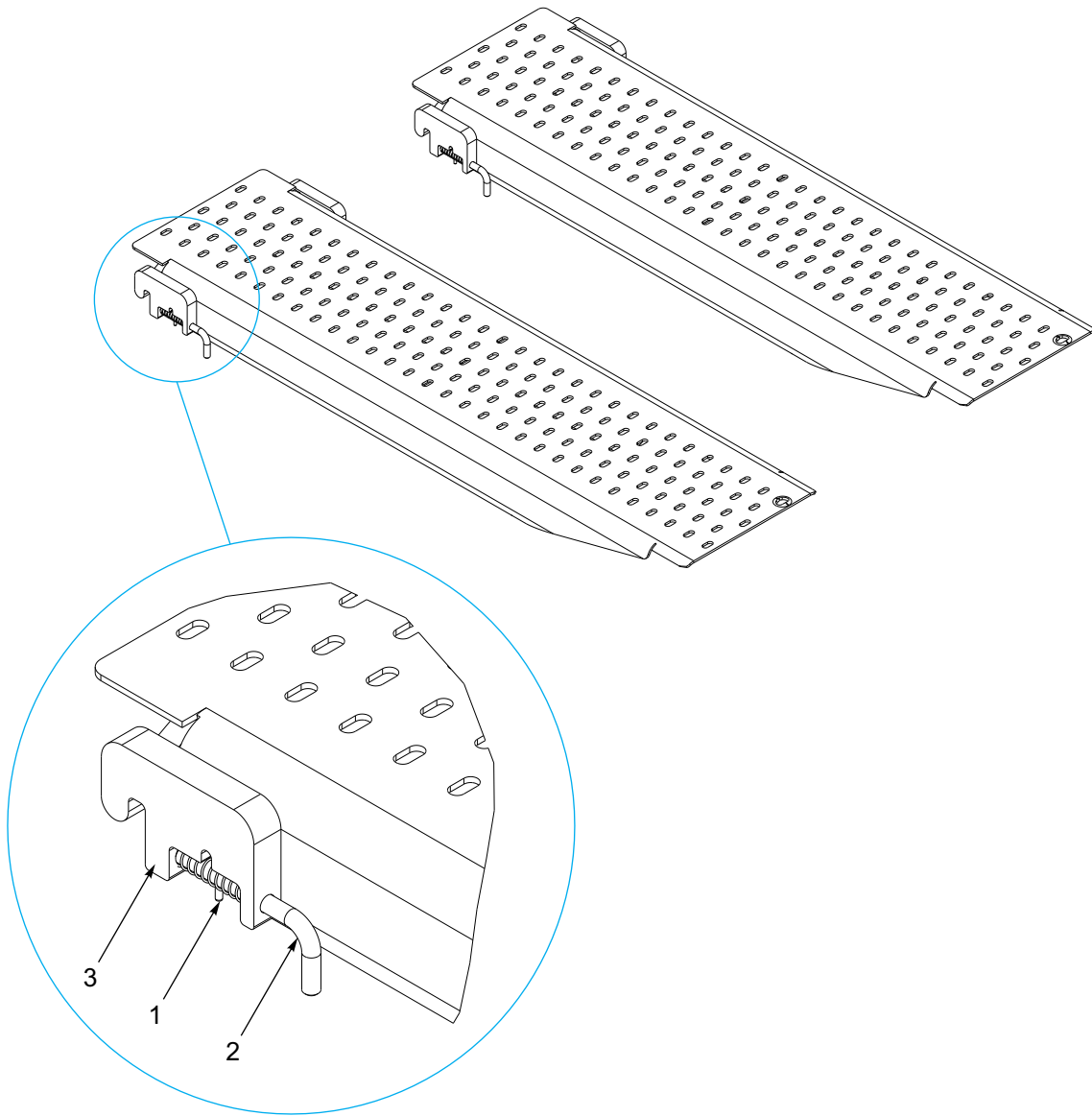


Figure 1-106: Ramp Assembly - Aluminum

Ramp Assembly - Aluminum

ITEM	PART NUMBER	DESCRIPTION	QTY.
	108962	RAMP ASSEMBLY, ALUMINUM	
	109174	RAMP ASSEMBLY, STEEL	
1	1-647-010004177	ROLL PIN SLOTTED, 3/16 X 1-1/2	4
2	104252	PIN, P/O EXT LOCK	4
3	104253	SPRING, COMPRESSION P/O EXT LOCK	4
4	108737	RAMP WELDMENT, ALUMINUM FRONT REMOVABLE	2
5	109173	RAMP WELDMENT, STEEL FRONT REMOVABLE	2

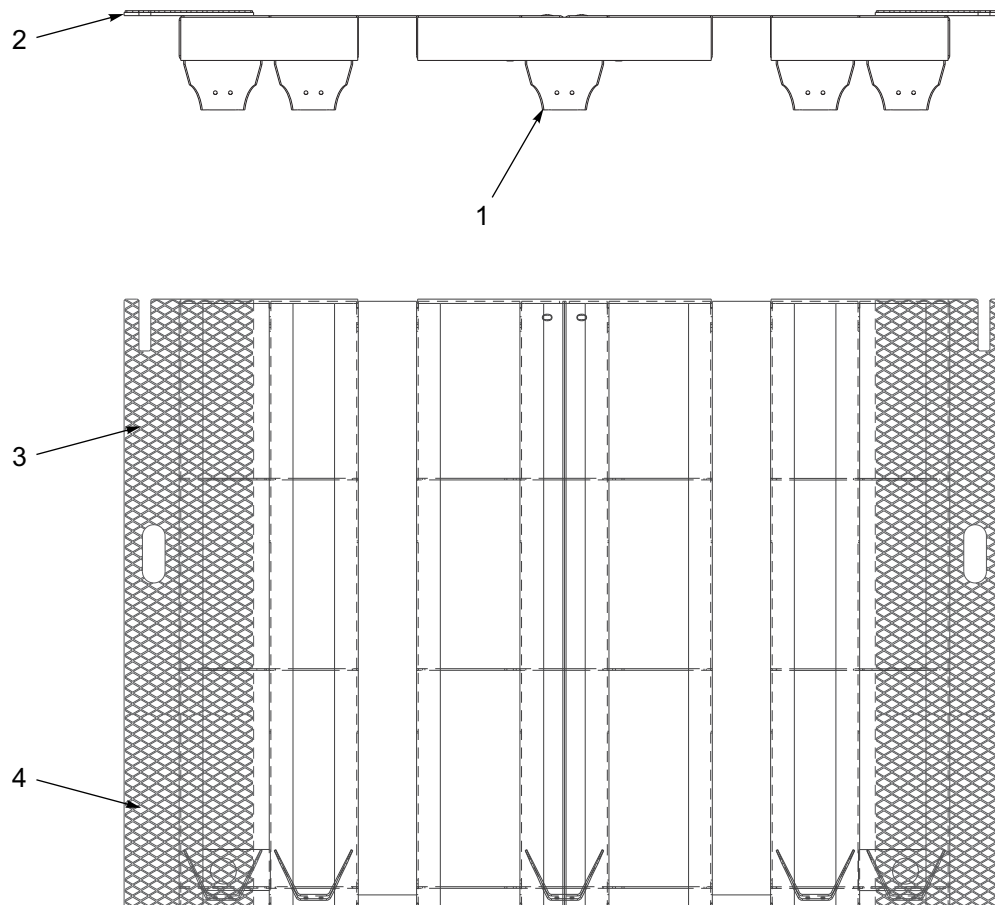


Figure 1-107: Ramp Modification Weldment - 6'

Ramp Modification Weldment - 6'

ITEM	PART NUMBER	DESCRIPTION	QTY.
	181546	RAMP MODIFICATION WELDMENT - 6 FEET	
1	139464	RAMP, WELMENT, 6FT, 930B D/D	1
2	181547	PLATE, WIDTH, EXT 6' RAMP	2
3	181548	EXP MTL, WIDTH, EXT 6' RAMP	2
4	182459	EXP MTL, 22-1/4 X 14-3/4	2

This diagram shows an exploded view of a mechanical assembly. The components are numbered as follows:

- 1:** Screws used for mounting the assembly to a base.
- 2:** A mounting plate or base plate.
- 3:** Washers or spacers used between the mounting plate and the base.
- 4:** A vertical support post or pin.
- 5:** A main vertical component, possibly a valve or actuator, mounted on the support post.
- 6:** Small pins or fasteners used to secure the main component.
- 7:** A small cylindrical component, possibly a seal or O-ring.
- 8:** A bracket or housing that encloses the main component.
- 9:** A long, thin cylindrical component, possibly a rod or shaft.
- 10:** A shorter cylindrical component, possibly a bush or spacer.
- 11:** A long, thin cylindrical component, possibly a rod or shaft.
- 12:** A small cylindrical component, possibly a seal or O-ring.
- 13:** A small rectangular component, possibly a plate or gasket.
- 14:** A small cylindrical component, possibly a seal or O-ring.

F-824-0916 Edition

4 Roller Guide Installation - 12K (BRADEN)

ITEM	PART NUMBER	DESCRIPTION	QTY.
	161155	4 ROLLER GUIDE INSTALLATION, 12K BRADEN	
1	1-512-010005-09	NUT, HEX LOCK 1/2-13 GRB	19
2	1-654-010055-04	SCREW, HEX HEAD CAP 1/2-13 X 1-3/4 GR5	8
3	1-861-010032-15	WASHER, FLAT 1/2W	12
4	145588	PLATE, ROLLER GUIDE MOUNT	1
5	161150	GUIDE ASSEMBLY, WINCH 12K BRADEN (ITEMS 1 & 6-14)	1
6	1-298-010001-1	FITTING, GREASE STR SHORT 1/4-28	6
7	1-654-010055-03	SCREW, HEX HEAD CAP 1/2-13 X 1-1/2 GR5	3
8	161151	BRACKET WELDMENT, WINCH GUIDE	1
9	161153	PIN, HORIZONTAL ROLLER GUIDE	2
10	161154	ROLLER, HORIZONTAL WINCH GUIDE	2
11	3-557-010543	PIN, VERTICAL ROLLER 20K GUIDE	2
12	3-565-011792	PLATE, GUIDE LOCK TOP	2
13	3-565-011793	PLATE, GUIDE LOCK SIDE	1
14	3-645-010087	ROLLER, VERTICAL 20K WINCH GUIDE	2

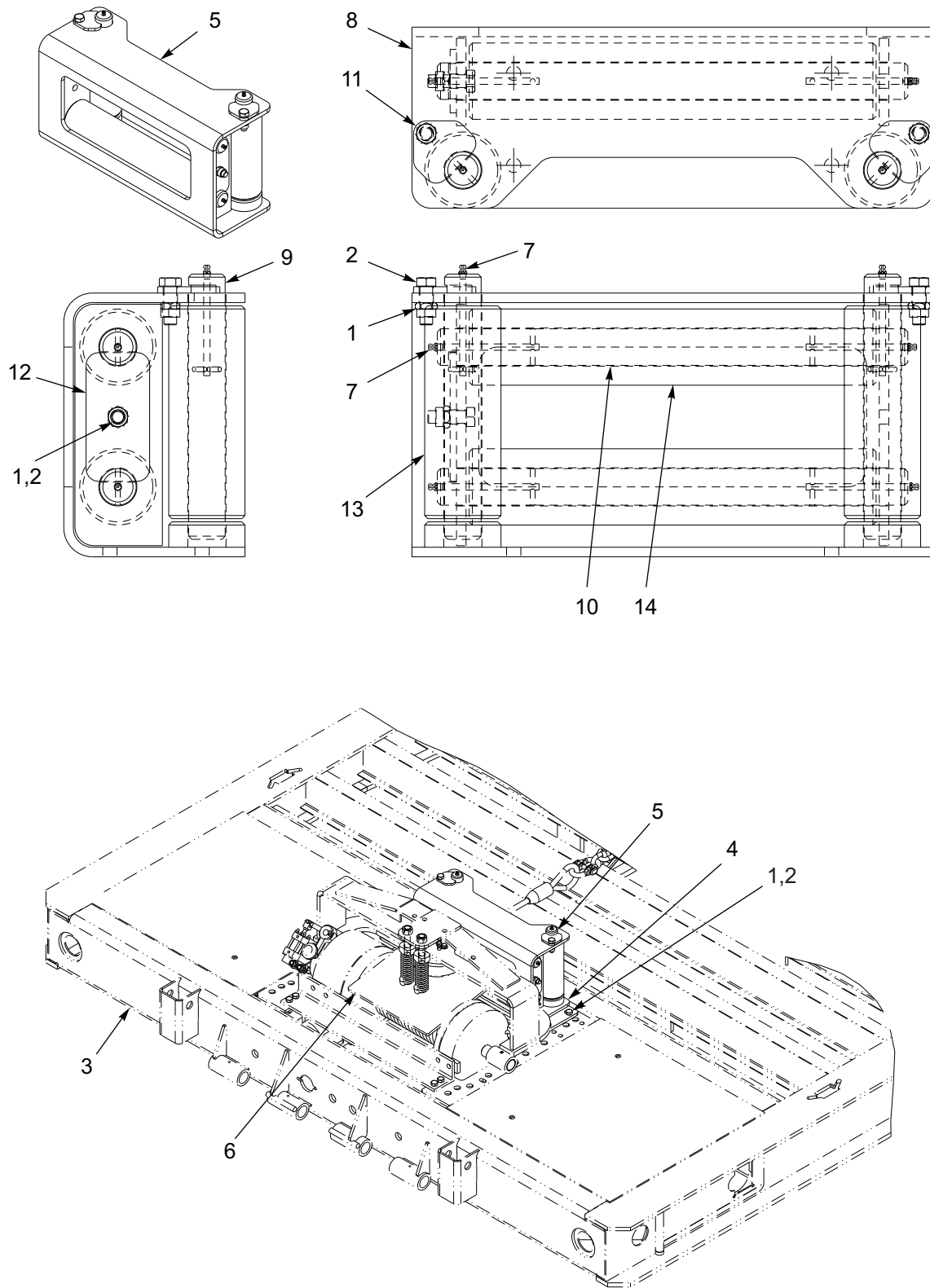


Figure 1-109: 4 Roller Guide Installation - 20K (BRADEN)

4 Roller Guide Installation - 20K (BRADEN)

ITEM	PART NUMBER	DESCRIPTION	QTY.
	145589	4 ROLLER GUIDE INSTALLATION, 20K BRADEN	
1	1-512-010005-09	NUT, HEX LOCK 1/2-13 GRB	11
2	1-654-010055-03	SCREW, HEX HEAD CAP 1/2-13 X 1-1/2 GR5	11
3	130662	GOOSENECK WELDMENT	REF
4	145588	PLATE, ROLLER GUIDE MOUNT	1
5	3-352-010067-2	GUIDE ASSEMBLY, WINCH (ITEMS 1,2 & 7-14)	1
6	3-873-010140-01	WINCH INSTALLATION, 20K UPPER DECK	REF
7	1-298-010001-1	FITTING, GREASE STR SHORT 1/4-28	6
8	3-120-010494	BRACKET WELDMENT, 20K WINCH GUIDE	1
9	3-557-010543	PIN, VERTICAL ROLLER 20K GUIDE	2
10	3-557-010544	PIN, HORIZONTAL ROLLER 20K GUIDE	2
11	3-565-011792	PLATE, GUIDE LOCK TOP	2
12	3-565-011793	PLATE, GUIDE LOCK SIDE	1
13	3-645-010087	ROLLER, VERTICAL 20K WINCH GUIDE	2
14	3-645-010088	ROLLER, HORIZONTAL 20K WINCH GUIDE	2

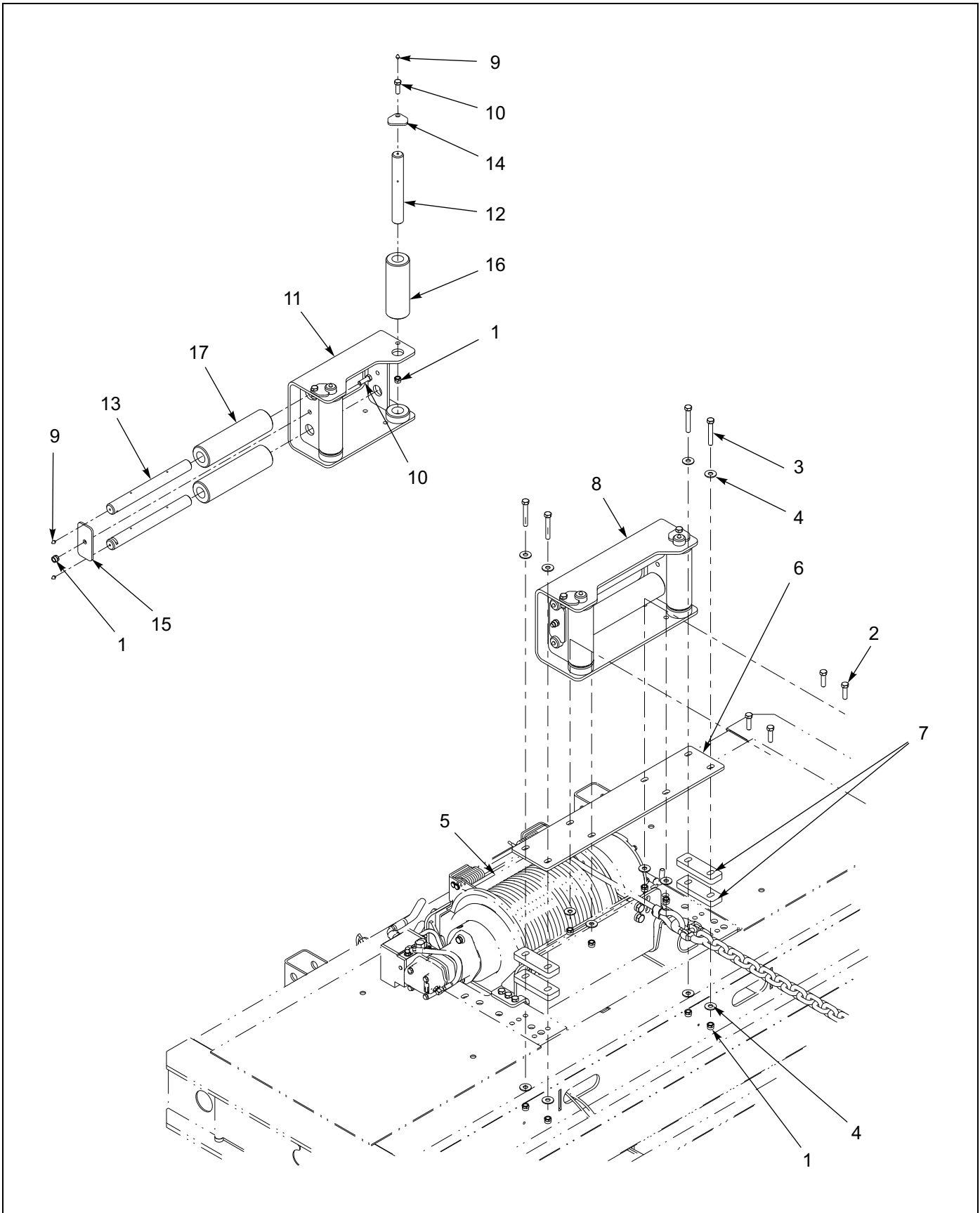


Figure 1-110: 4 Roller Guide Installation - 20K/30K (WARN)

4 Roller Guide Installation - 20K/30K (WARN)

ITEM	PART NUMBER	DESCRIPTION	QTY.
	162258	4 ROLLER GUIDE INSTALLATION, WARN	
1	1-512-010005-09	NUT, HEX LOCK 1/2-13 GRB	11
2	1-654-010055-04	SCREW, HEX HEAD CAP 1/2-13 X 1-1/2 GR5	4
3	1-654-010055-10	SCREW, HEX HEAD CAP 1/2-13 X 3-1/4 GR5	4
4	1-861-010032-15	WASHER, FLAT 1/2W	12
5	151818	WINCH INSTALLATION, 20K WARN	REF
	155411	WINCH INSTALLATION, 30K WARN	REF
6	162259	PLATE, ROLLER GUIDE	1
7	162260	PLATE, ROLLER SPACER	4
8	3-352-010067-2	GUIDE ASSEMBLY, WINCH (ITEMS 1, & 9-17)	1
9	1-298-010001-1	FITTING, GREASE STR SHORT 1/4-28	6
10	1-654-010055-03	SCREW, HEX HEAD CAP 1/2-13 X 1-1/2 GR5	3
11	3-120-010494	BRACKET WELDMENT, 20K WINCH GUIDE	1
12	3-557-010543	PIN, VERTICAL ROLLER 20K GUIDE	2
13	3-557-010544	PIN, HORIZONTAL ROLLER 20K GUIDE	2
14	3-565-011792	PLATE, GUIDE LOCK TOP	2
15	3-565-011793	PLATE, GUIDE LOCK SIDE	1
16	3-645-010087	ROLLER, VERTICAL 20K WINCH GUIDE	2
17	3-645-010088	ROLLER, HORIZONTAL 20K WINCH GUIDE	2

Spare Tire - Options

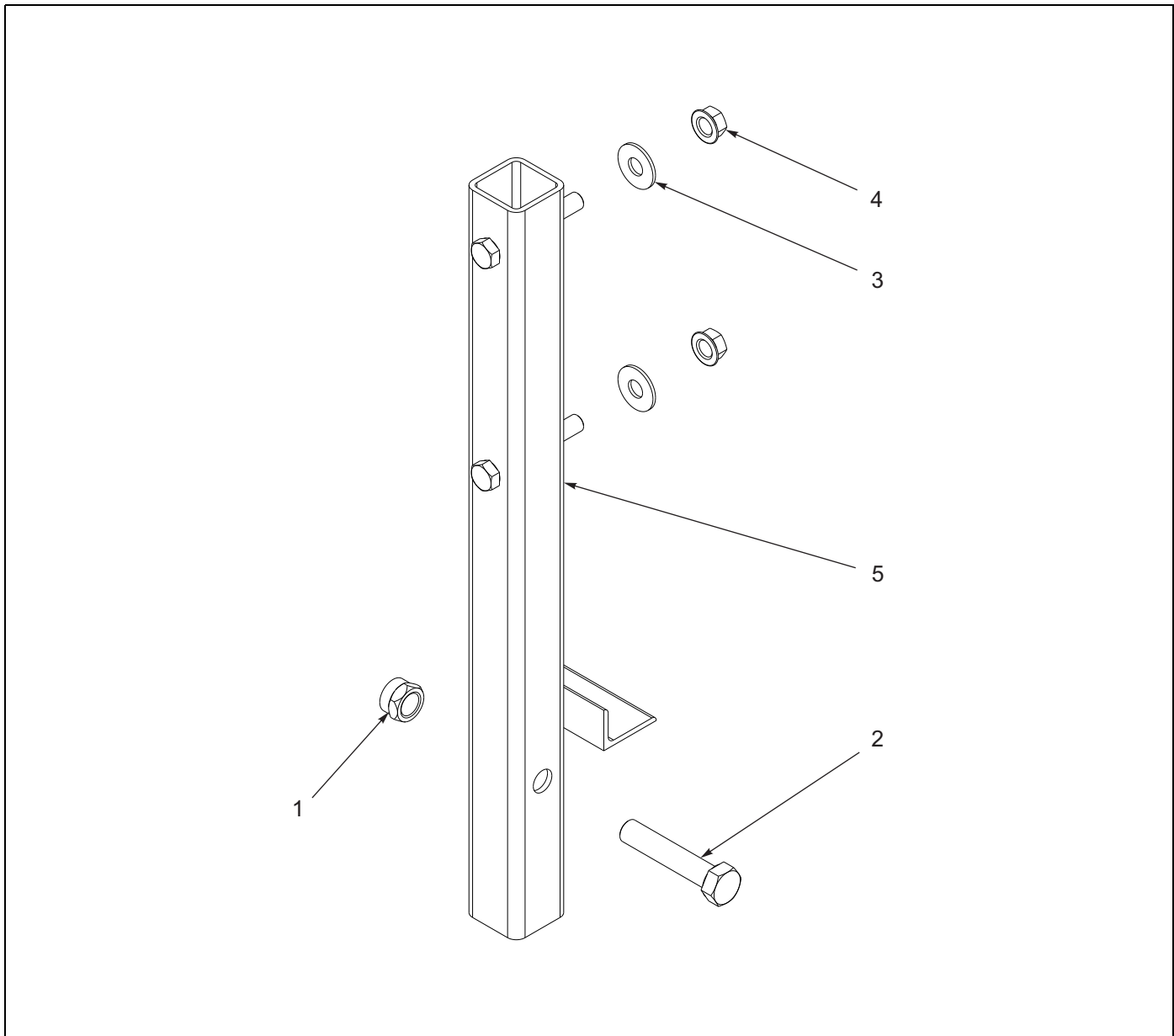


Figure 1-111: Spare Tire Mount Assembly

Spare Tire Mount Assembly

ITEM	PART NUMBER	DESCRIPTION	QTY.	
	130282	SPARE TIRE MOUNT ASSEMBLY	*	
	169641	SPARE TIRE MOUNT ASSEMBLY, 255 TIRES	*	
1	1-512-010005-19	NUT, HEX LOCK 1-8 GRB	1	1
2	1-654-010065-15	SCREW, HEX HEAD CAP 1-8 X 5 GR5	1	1
3	1-861-010032-21	WASHER, FLAT, 3/4W	2	2
4	103841	NUT, FLANGE PREVAILING TORQUE 3/4-10	2	2
5	130280	MOUNT WELDMENT, SPARE TIRE	1	--
	169639	MOUNT WELDMENT, SPARE TIRE, 255	--	1

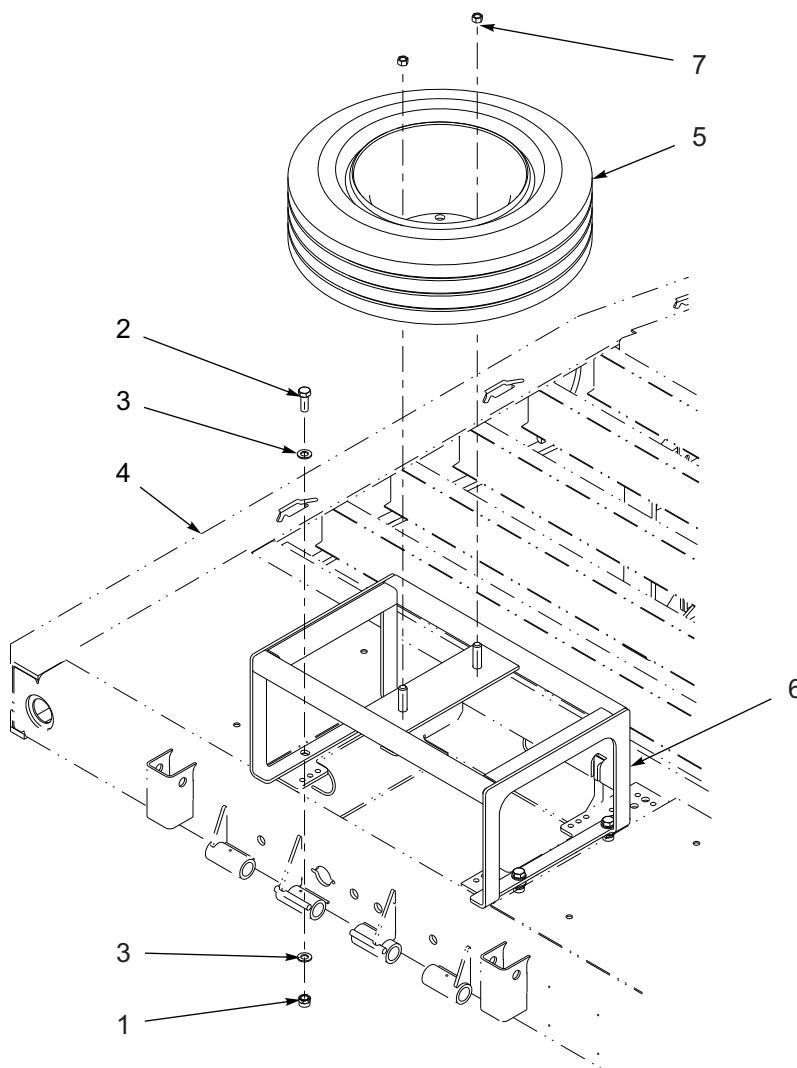


Figure 1-112: Spare Tire Mount Assembly - Horizontal

Spare Tire Mount Assembly - Horizontal

ITEM	PART NUMBER	DESCRIPTION	QTY.
	163790	HORIZONTAL SPARE TIRE MOUNT ASSEMBLY	
1	1-512-010005-15	NUT, HEX LOCK 3/4-10 GRB	4
2	1-654-010061-05	SCREW, HEX HEAD CAP 3/4-10 X 2 GR5	4
3	1-861-010032-20	WASHER, FLAT, 3/4N	2
4	----	GOOSENECK WELDMENT	REF
5	----	TIRE ASSEMBLY	REF
6	163791	MOUNT WELDMENT, HORIZONTAL SPARE TIRE	1
7	179933	NUT, HEX M22 X 1.5	2

Steps - Options

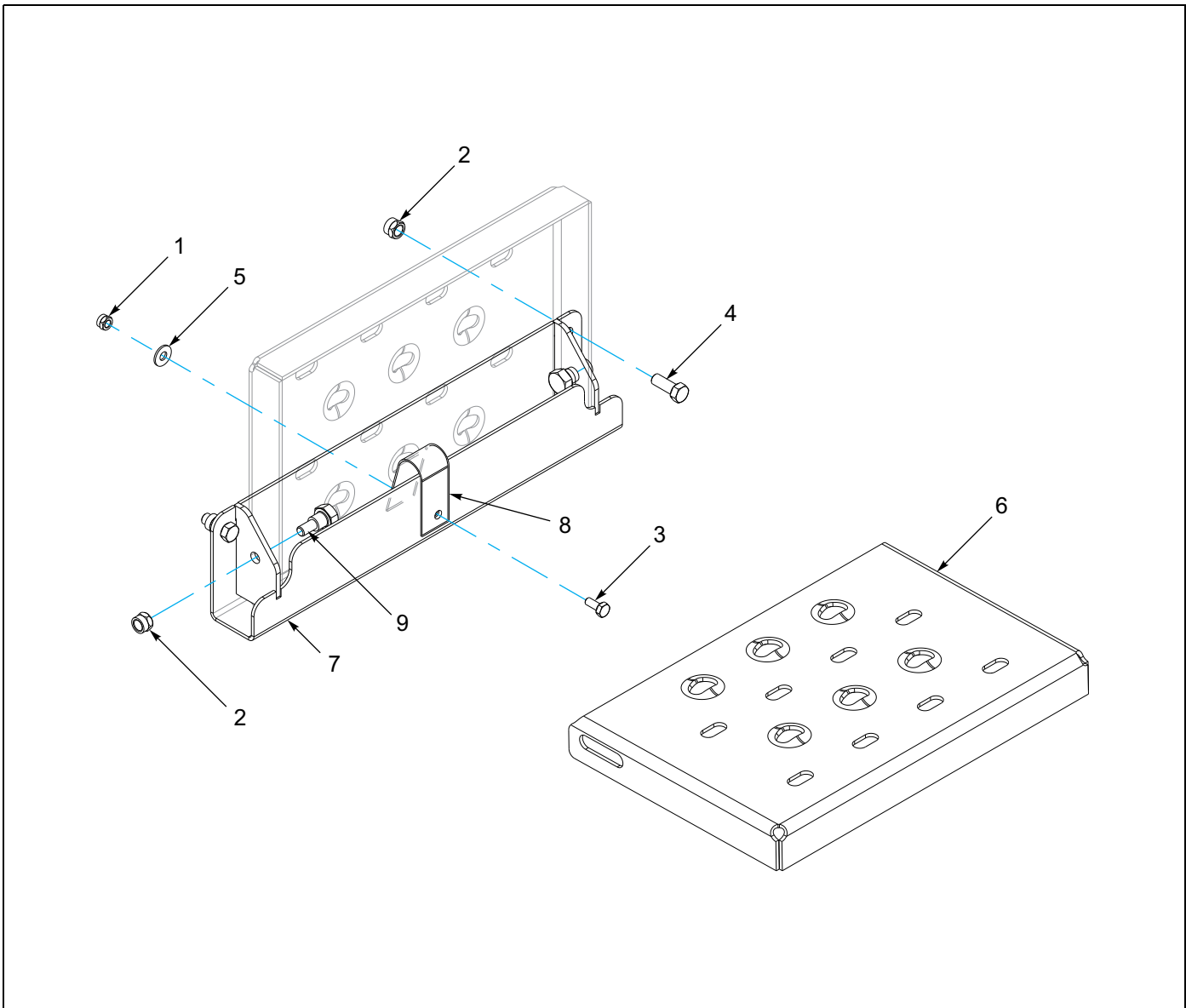


Figure 1-113: Folding Step Assembly - Double Drop Frame

Folding Step Assembly - Double Drop Frame

ITEM	PART NUMBER	DESCRIPTION	QTY.
	174061	FOLDING STEP ASSEMBLY	
1	1-512-010005-01	NUT, HEX LOCK 1/4-20 GRB	1
2	1-512-010005-05	NUT, HEX LOCK 3/8-16 GRB	4
3	1-654-010047-03	SCREW, HEX HEAD CAP 1/4-20 X 5/8 GR5	1
4	1-654-010051-05	SCREW, HEX HEAD CAP 3/8-16 X 1 GR5	2
5	1-861-010032-07	WASHER, FLAT 1/4W	1
6	174058	STEP, FOLD UP	1
7	174091	ANCHOR WELDMENT, FOLDING STEP	1
8	174092	SPRING, STAY FOLDING STEP	1
9	2-095-010017	SCREW, HEX HEAD CAP 1/2-13 X 1 GR5	2

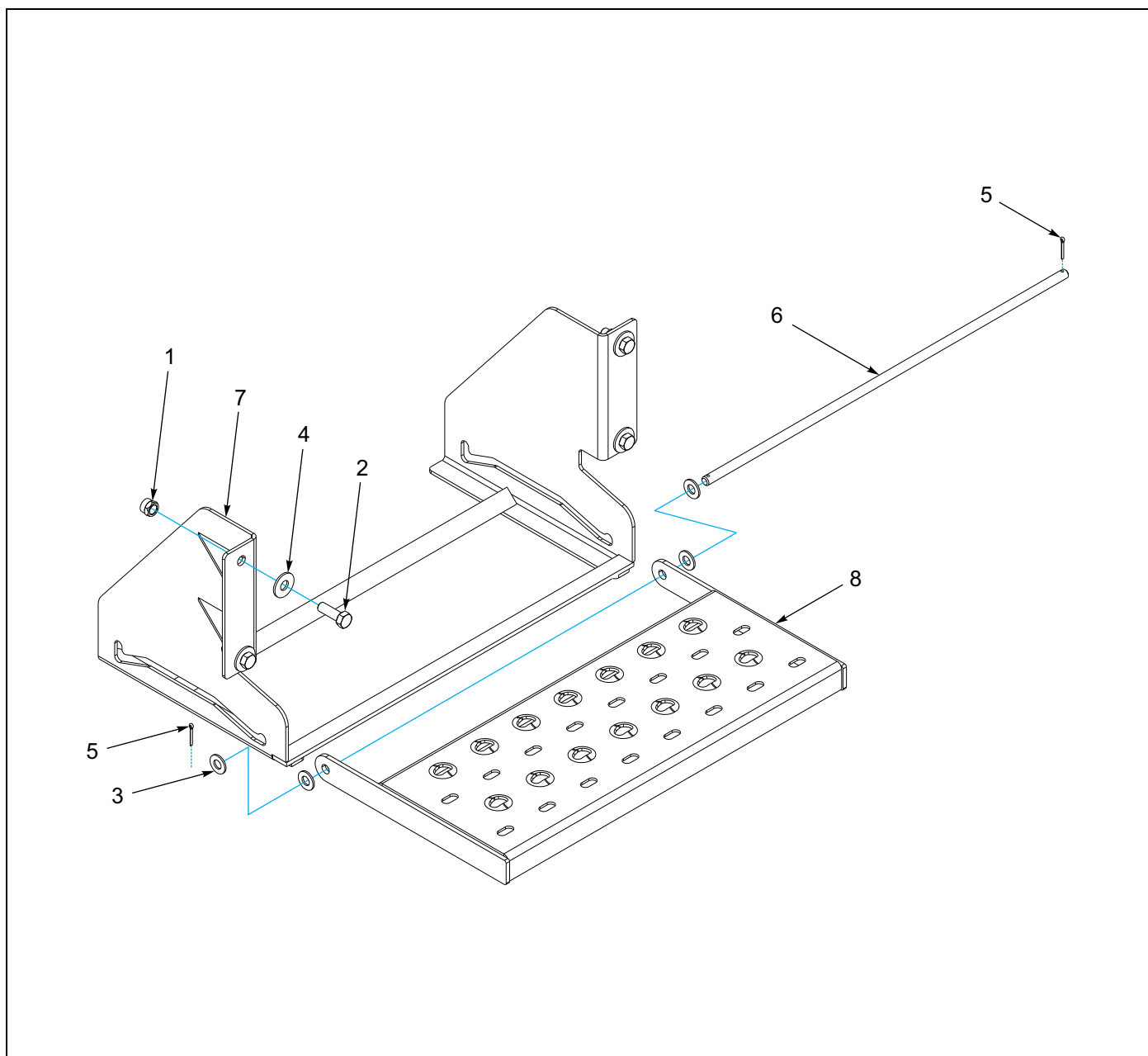


Figure 1-114: Retractable Step Assembly

Retractable Step Assembly

ITEM	PART NUMBER	DESCRIPTION	QTY.
	175632	RETRACTABLE STEP ASSEMBLY	
1	1-512-010005-09	NUT, HEX LOCK 1/2-13 GRB	4
2	1-654-010055-03	SCREW, HEX HEAD CAP 1/2-13 X 1-1/2 GR5	4
3	1-861-010032-14	WASHER, FLAT 1/2	4
4	1-861-010032-15	WASHER, FLAT 1/2W	4
5	101386	PIN, COTTER 1/8 X 1	2
6	175625	PIN, SLIDING RETRACTABLE STEP	1
7	175633	STEP MOUNT, RETRACTABLE	1
8	175638	STEP WELDMENT, RETRACTABLE	1

Toolboxes - Options

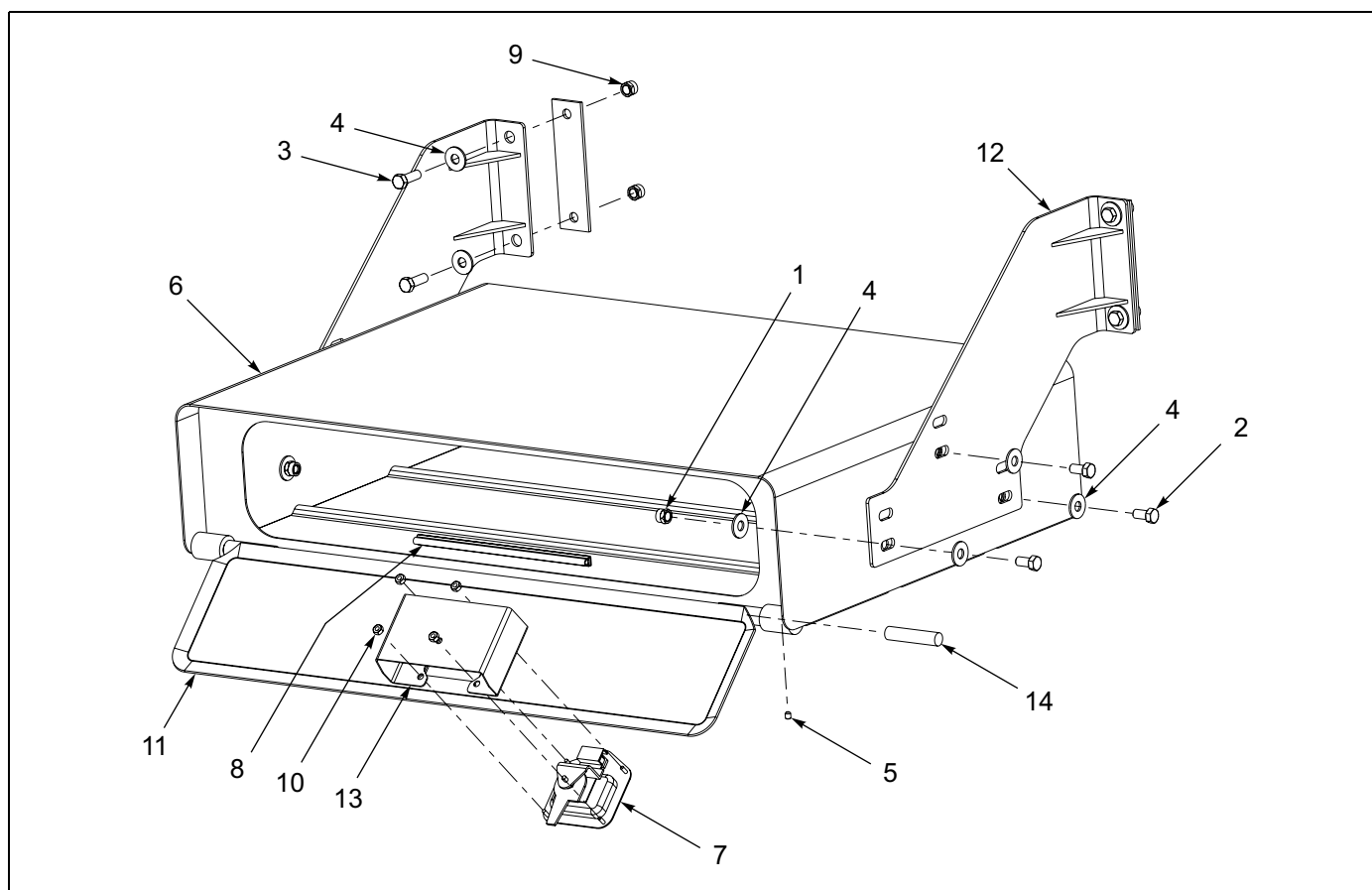


Figure 1-115: Toolbox Installation - Steel/Aluminum Door

Toolbox Installation - Steel/Aluminum Door

ITEM	PART NUMBER	DESCRIPTION	QTY.
	114807	TOOLBOX INSTALLATION STEEL DOOR	
	116628	TOOLBOX INSTALLATION ALUMINUM DOOR	1
1	1-512-010005-09	NUT, HEX LOCK 1/2-13 GRB	10
2	1-654-010055-02	SCREW, HEX HEAD CAP 1/2-13 X 1-1/4 GR5 (USED W/ 114807)	6
	1-654-010055-01	SCREW, HEX HEAD CAP 1/2-13 X 1 GR5 (USED W/ 116628)	6
3	1-654-010055-03	SCREW, HEX HEAD CAP 1/2-13 X 1-1/2 GR5	4
4	1-861-010032-15	WASHER, FLAT 1/2W	16
5	107-0975	SCREW, SET LOCK 5/16-18 X 3/8	2
6	114808	TOOLBOX WELDMENT	1
7	114814	LATCH FOLDING T LOCKABLE	1
8	114815	SEAL, SPONGE RUBBER TRIM	7
9	115843	BAR, BACKUP TOOLBOX MOUNTING	2
10	115877	NUT, HEAVY HEX 1/4-20 GR5	4
11	116623	DOOR WELDMENT STEEL TOOLBOX (USED W/ 114807)	1
	116624	DOOR WELDMENT ALUMINUM TOOLBOX (USED W/ 116628)	1
12	117860	BRACKET, WELDMENT TOOLBOX MOUNTING	2
13	153420	TOOLBOX LATCH SHIELD	1
14	RPRB59004X3H	BAR, ROUND 3/4 X 3-1/2 NYLATRON	2

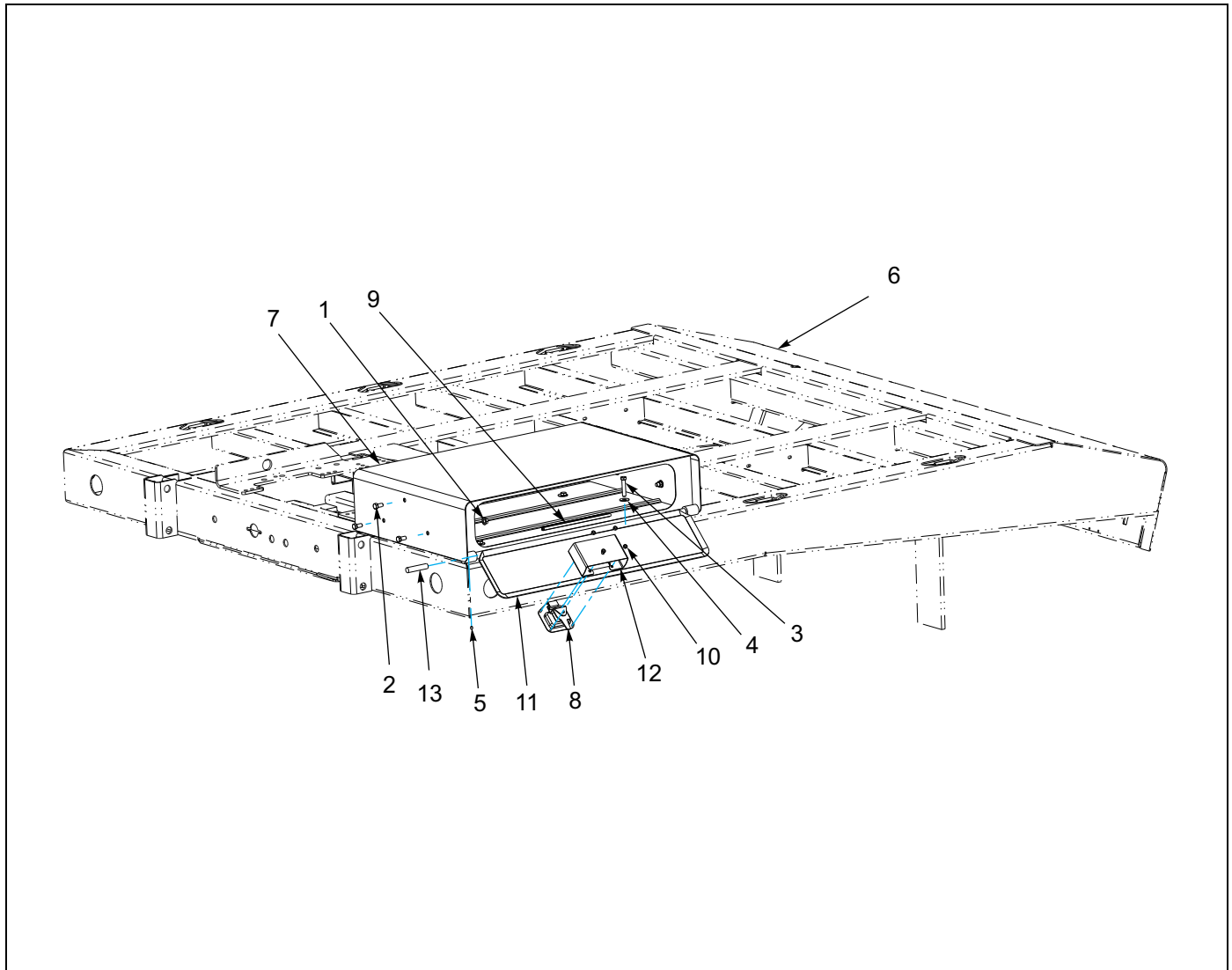


Figure 1-116: Toolbox Installation - Upper Deck

Toolbox Installation - Upper Deck

ITEM	PART NUMBER	DESCRIPTION	QTY.
	125399	UPPER DECK TOOLBOX INSTALLATION	
1	1-510-010003-09	NUT, FLANGE HEAD SERRATED 1/2-13	10
2	1-654-010055-01	SCREW, HEX HEAD CAP 1/2-13 X 1 GR5	6
3	1-654-010055-07	SCREW, HEX HEAD CAP 1/2-13 X 2-1/2 GR5	6
4	1-861-010032-15	WASHER, FLAT 1/2W	16
5	107-0975	SCREW, SET LOCK 5/16-18 X 3/8	2
6	-----	GOOSENECK WELDMENT	REF
7	114808	TOOLBOX WELDMENT	1
8	114814	LATCH, FOLDING T LOCKABLE	1
9	114815	SEAL SPONGE RUBBER TRIM	7
10	115877	NUT, HEAVY HEX 1/4-20 GR5	4
11	116623	DOOR WELDMENT STEEL TOOLBOX	1
12	153420	TOOLBOX LATCH SHIELD	1
13	RPRB59004X3H	BAR ROUND, 3/4DIA X 3-1/2 NYLATRON	2

Upper Deck - Options

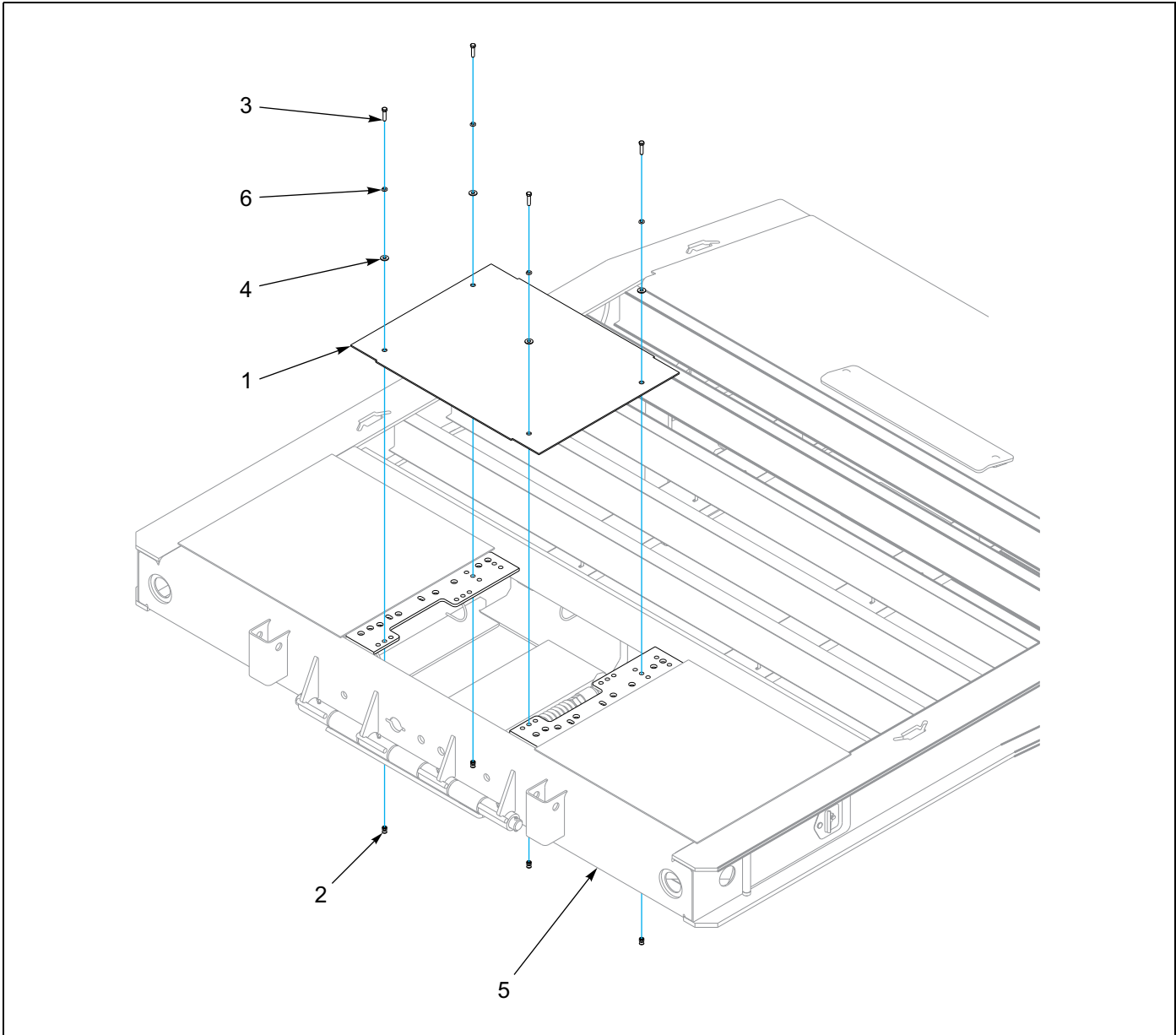


Figure 1-117: Upper Deck Cover Assembly

Upper Deck - Cover Assembly

ITEM	PART NUMBER	DESCRIPTION	QTY.
	137635	COVER ASSEMBLY, UPPER DECK	
1	137634	COVER, UPPER DECK	1
2	139254	NUTSERT, 3/8-16	4
3	1-654-010051-07	SCREW, HEX HEAD CAP 3/8-16 X 1-1/2 GR5	4
4	1-861-010032-11	WASHER, FLAT 3/8W	4
5	130552	FRAME ASSEMBLY, GOOSENECK	REF
6	1-861-010034-11	WASHER, SPLIT LOCK 3/8	4
7	1-007-010025	PLUG, O-RING BOSS 3/4-16 (NOT SHOWN)	1

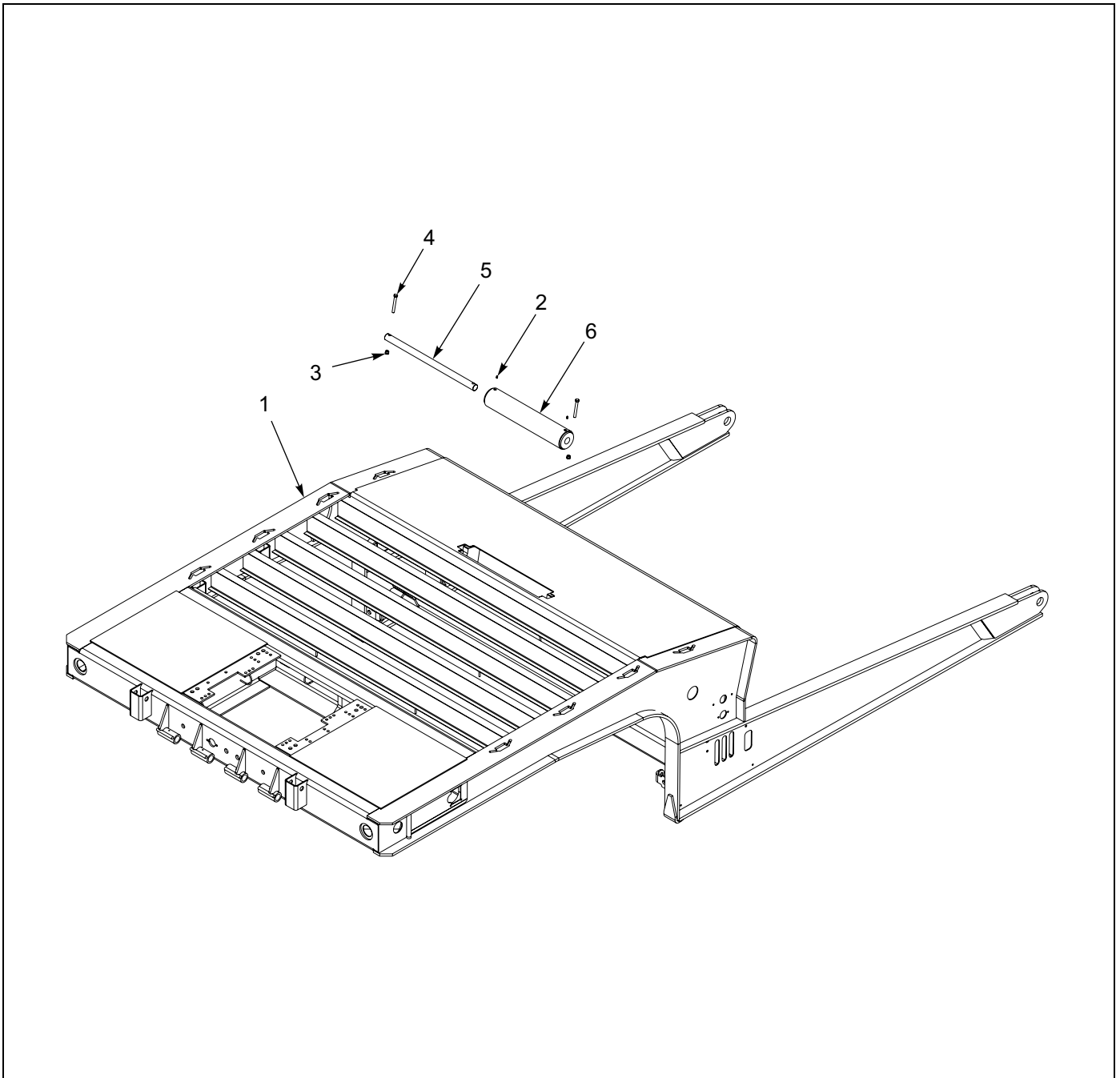


Figure 1-118: Upper Deck - Roller Installation

Upper Deck - Roller Installation

ITEM	PART NUMBER	DESCRIPTION	QTY.
	131895	UPPER DECK ROLLER INSTALLATION	
1	130662	GOOSENECK WELDMENT	REF
2	1-298-010001-1	FITTING, GREASE 1/4-28 STR SHORT	2
3	1-512-010005-09	NUT, HEX LOCK 1/2-13 GRB	2
4	1-654-010055-13	SCREW, HEX HEAD CAP 1/2-13 X 4 GR5	2
5	3-642-010134	ROLLER ROD	1
6	3-645-010059	ROLLER WELDMENT, CABLE U/D	1

Winches - Options

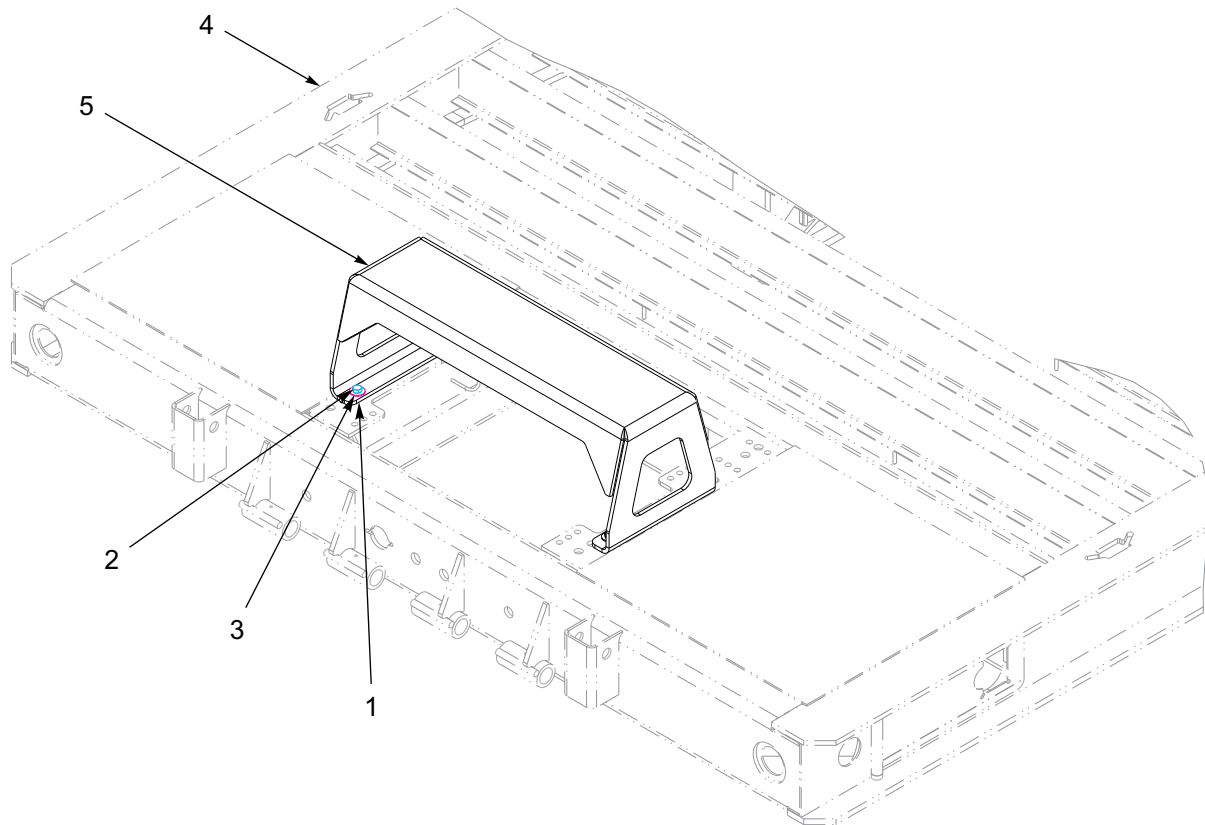


Figure 1-119: Winch - 12K/20K Guard Installation (BRADEN)

Winch - 12K/20K Guard Installation (BRADEN)

ITEM	PART NUMBER	DESCRIPTION	QTY.
	145598	12/20K WINCH GUARD INSTALLATION	
1	1-512-010005-09	NUT, HEX LOCK 1/2-13	4
2	1-654-010055-05	SCREW, HEX HEAD CAP 1/2-13 X 2 GR5	4
3	1-861-010032-15	WASHER, FLAT 1/2	8
4	-----	GOOSENECK WELDMENT	REF
5	145599	GUARD, WINCH 12/20K BRADEN	1

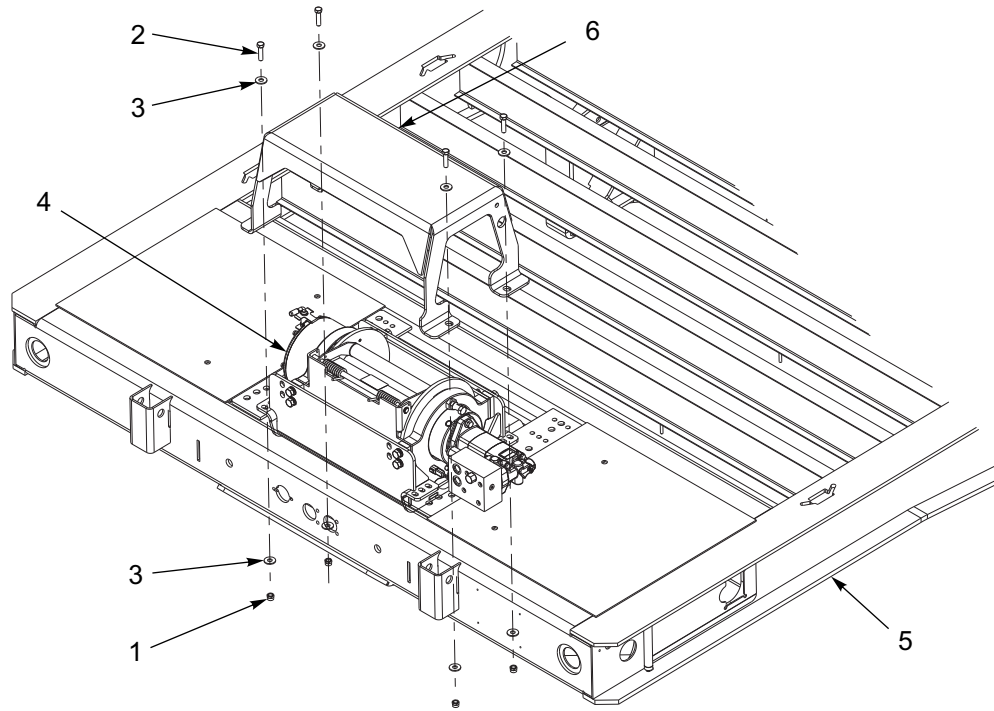


Figure 1-120: Winch - 20K/30K Guard Installation (WARN)

Winch - 20K/30K Guard Installation (WARN)

ITEM	PART NUMBER	DESCRIPTION	QTY.
	191832	20K/30K WINCH GUARD INSTALLATION	
1	1-512-010005-09	NUT, HEX LOCK 1/2-13	4
2	1-654-010055-05	SCREW, HEX HEAD CAP 1/2-13 X 2 GR5	4
3	1-861-010032-15	WASHER, FLAT 1/2	8
4	174552	FRAME WELDMENT	REF
5	186901	WLDMT, GOOSENECK, US 400	REF
6	191831	GUARD, WINCH 20K/30K WARN	REF

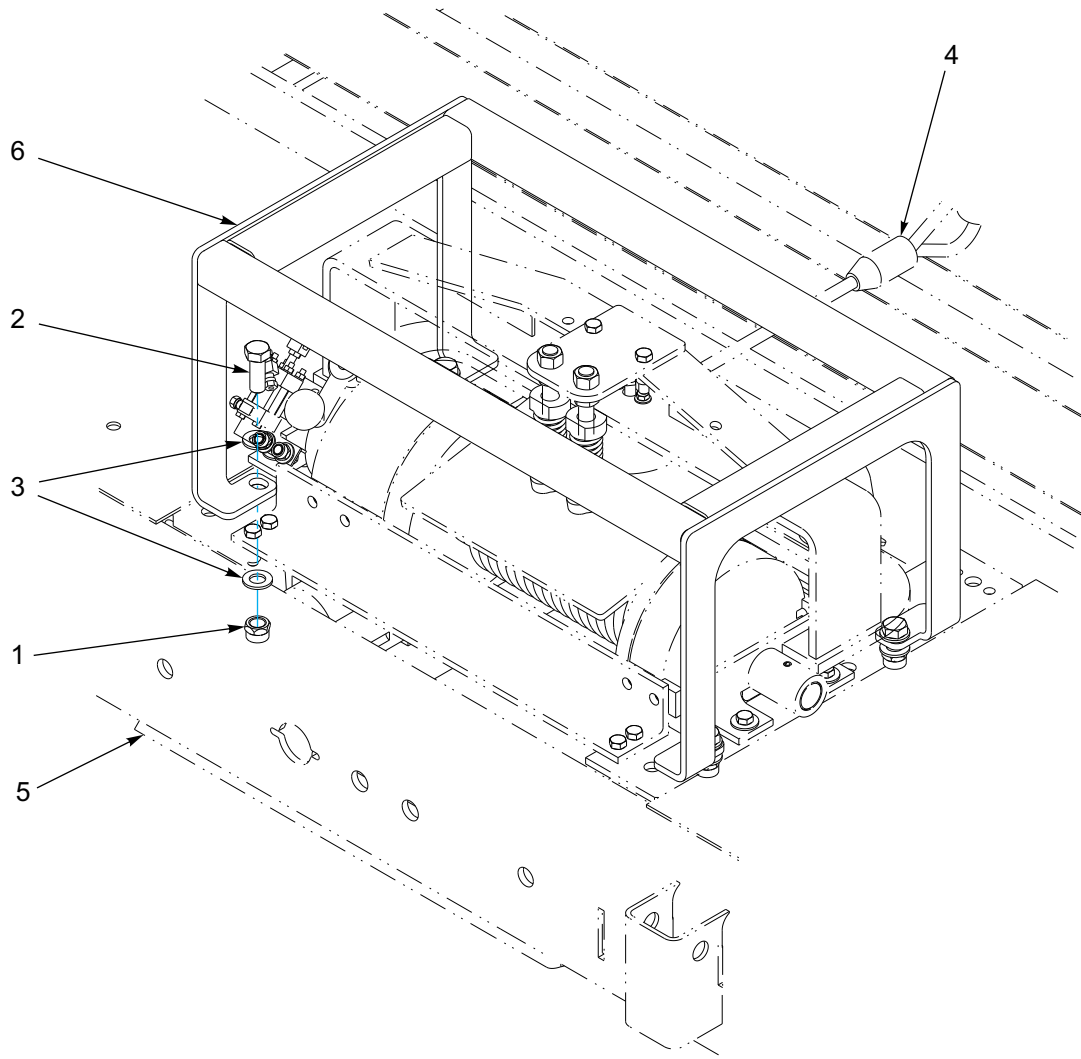


Figure 1-121: Winch - 20K Pivot Guard Installation

Winch - 20K Pivot Guard Installation

ITEM	PART NUMBER	DESCRIPTION	QTY.
	163769	GUARD INSTALLATION, WINCH 20K PIVOT	
1	1-512-010005-15	NUT, HEX LOCK 3/4-10 GRB	4
2	1-654-010061-05	SCREW, HEX HEAD CAP 3/4-10 X 2 GR5	4
3	1-861-010032-20	WASHER, FLAT, 3/4N	2
4	123210	WINCH, 20K GUIDE AIR TEN/REL	REF
5	-----	GOOSENECK WELDMENT	REF
6	163770	MOUNT WELDMENT, HORIZONTAL SPARE TIRE	1

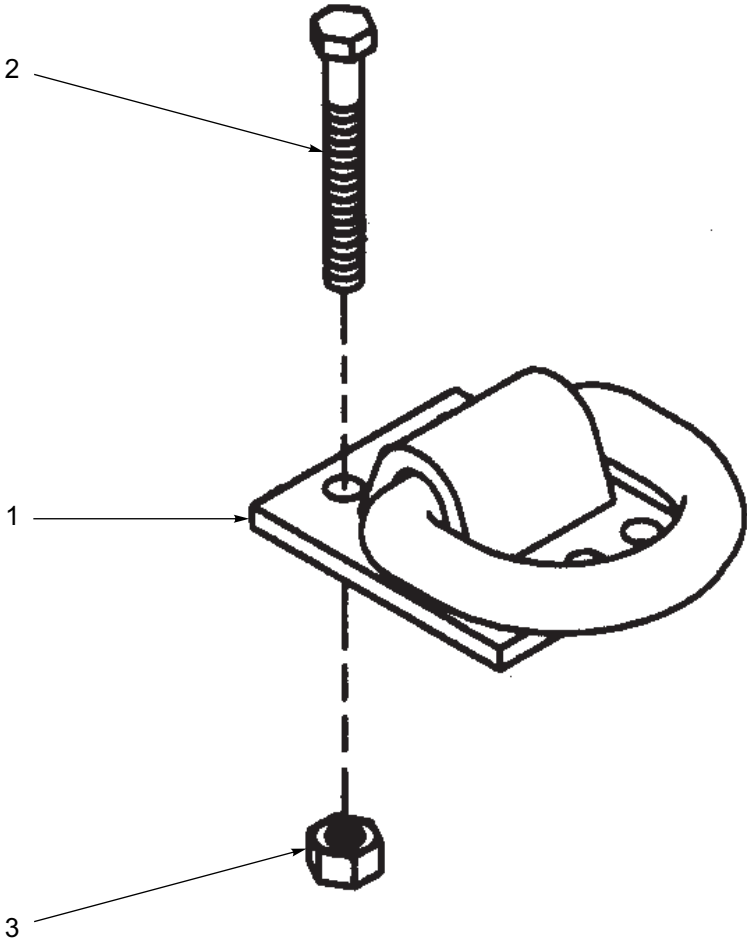


Figure 1-122: Winch - Tie Down Installation

Winch - Tie Down Installation

ITEM	PART NUMBER	DESCRIPTION	QTY.
	3-793-010041	TIE DOWN INSTALLATION WINCH D-RING	
1	3-793-010040	TIE DOWN, WINCH	1
2	1-654-010055-03	SCREW, HEX HEAD CAP 1/2-13 X 1-1/2 GR5	6
3	1-512-010005-09	NUT, HEX LOCK 1/2-13 GRB	6

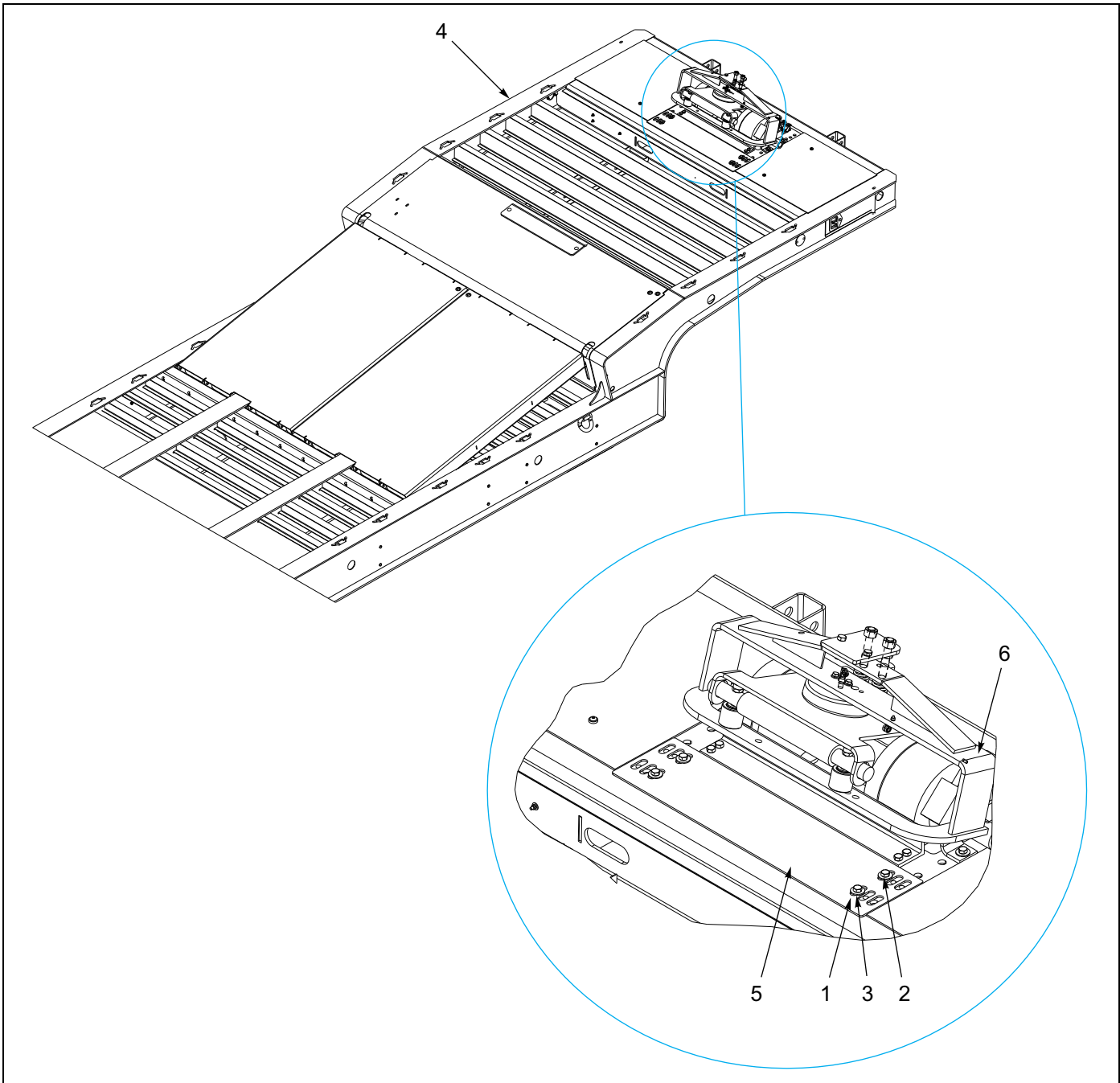


Figure 1-123: Winch - Trim Plate Installation

Winch - Trim Plate Installation

ITEM	PART NUMBER	DESCRIPTION	QTY.
	166767	WINCH TRIM PLATE INSTALLATION	
1	1-510-010003-09	NUT,1/2-13 FLANGE HD,SERRATED	4
2	1-654-010055-03	SCREW,HEX CAP,1/2-13UNCX1-1/2	4
3	1-861-010032-15	WASHER, FLAT 1/2 W ZP/CD	4
4	195881	FRAME ASSY, 930-36	REF
5	204160	PLATE, WINCH TRIM REAR WINCH	1
6	3-873-010140-06	WINCH 660-20AT-AS-CR WL ONLY	REF

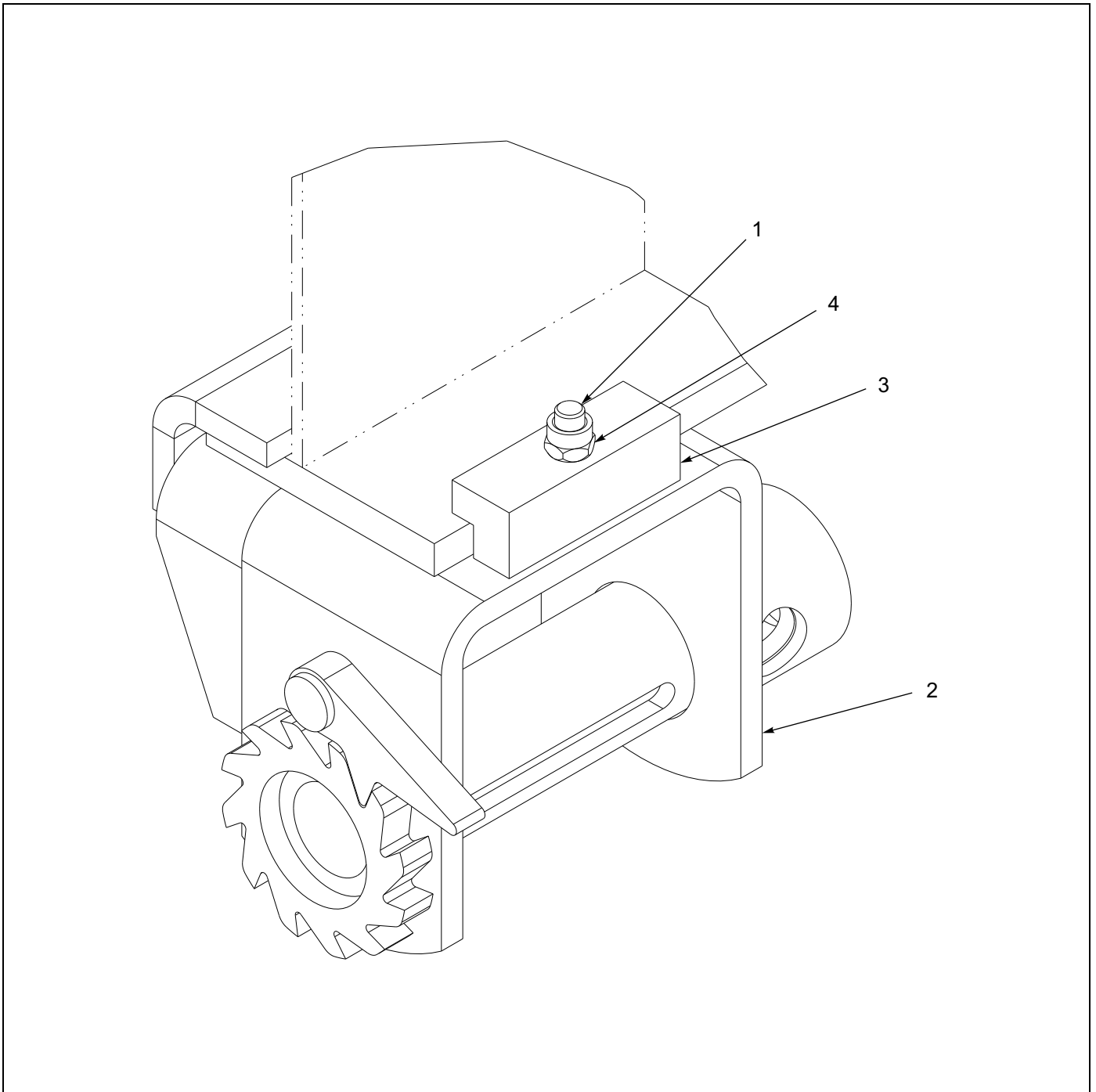


Figure 1-124: Winch - 4" Webbing Sliding Assembly

Winch - 4" Webbing Sliding Assembly

ITEM	PART NUMBER	DESCRIPTION	QTY.
	142923	WINCH ASSEMBLY, 4" WEBBING SLIDING	
1	134781	CLAMP, SLIDING WEB WINCH	1
2	142924	WINCH, WEBBING SLIDE MODIFICATION	1
3	1-512-010005-05	NUT, HEX LOCK 3/8-16 GRB	1
4	1-654-010051-09	SCREW, HEX HEAD CAP 3/8-16 X 2 GR5	1

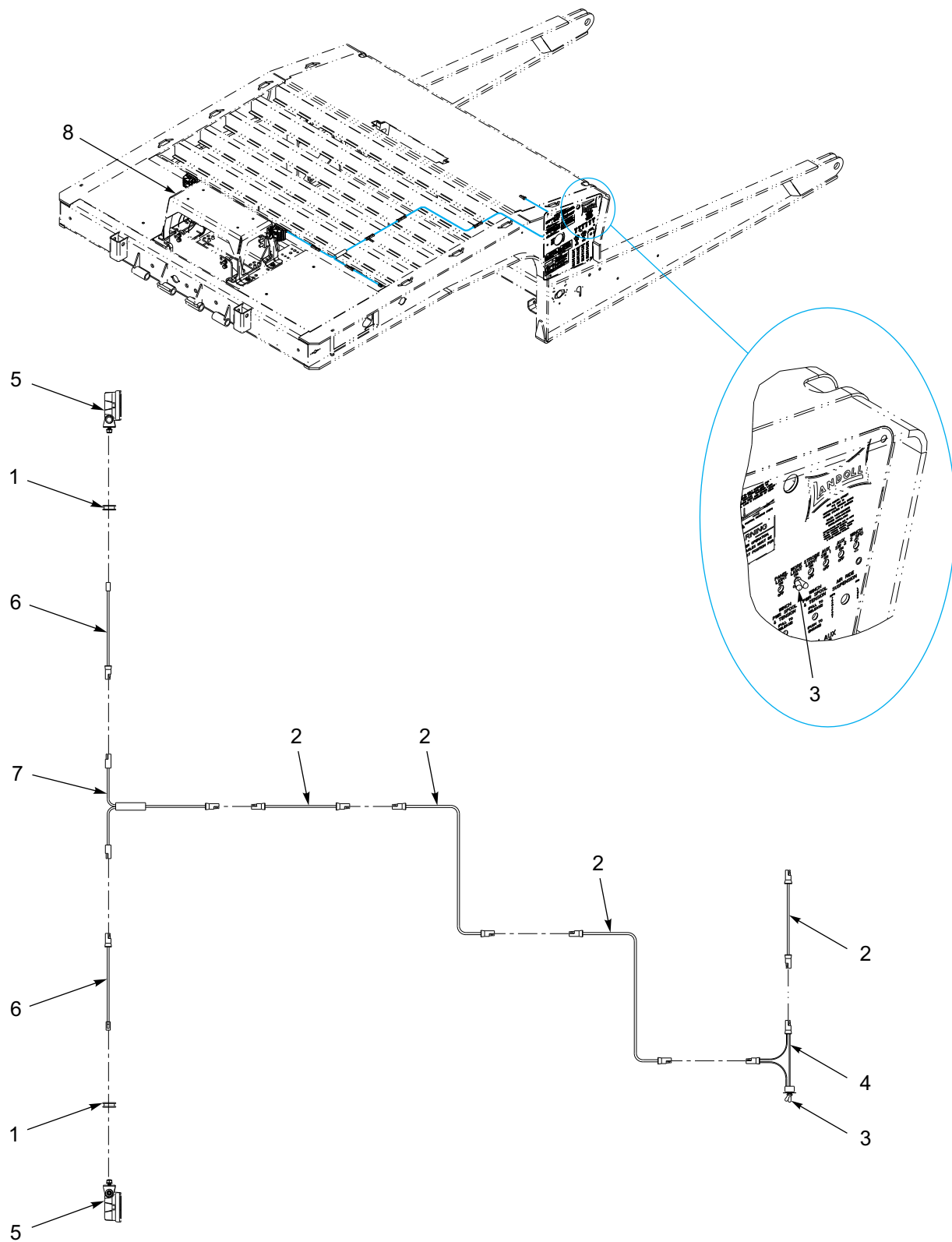


Figure 1-125: Winch - Work Light Installation

Winch - Work Light Installation

ITEM	PART NUMBER	DESCRIPTION	QTY.
	191833	WINCH WORK LIGHT INSTALLATION	
1	1-343-010011	GROMMET	2
2	3-368-010252	HARNESS ASSEMBLY, BULKHEAD LIGHT EXTENSION	4
3	81264	RUBBER BOOT FOR ELECT SWITCH	1
4	150117	TOGGLE SWITCH SEALED SPST	1
5	163996	LIGHT LED WHITE FLOOD LAMP	2
6	164052	HARNESS, 60" BRANCH WORK LIGHT	2
7	169853	HARNESS, JUMPER T-POWER	1
8	191832	20K/30K WINCH GUARD INSTALLATION (SEE PAGE 1-186)	1

Misc Options

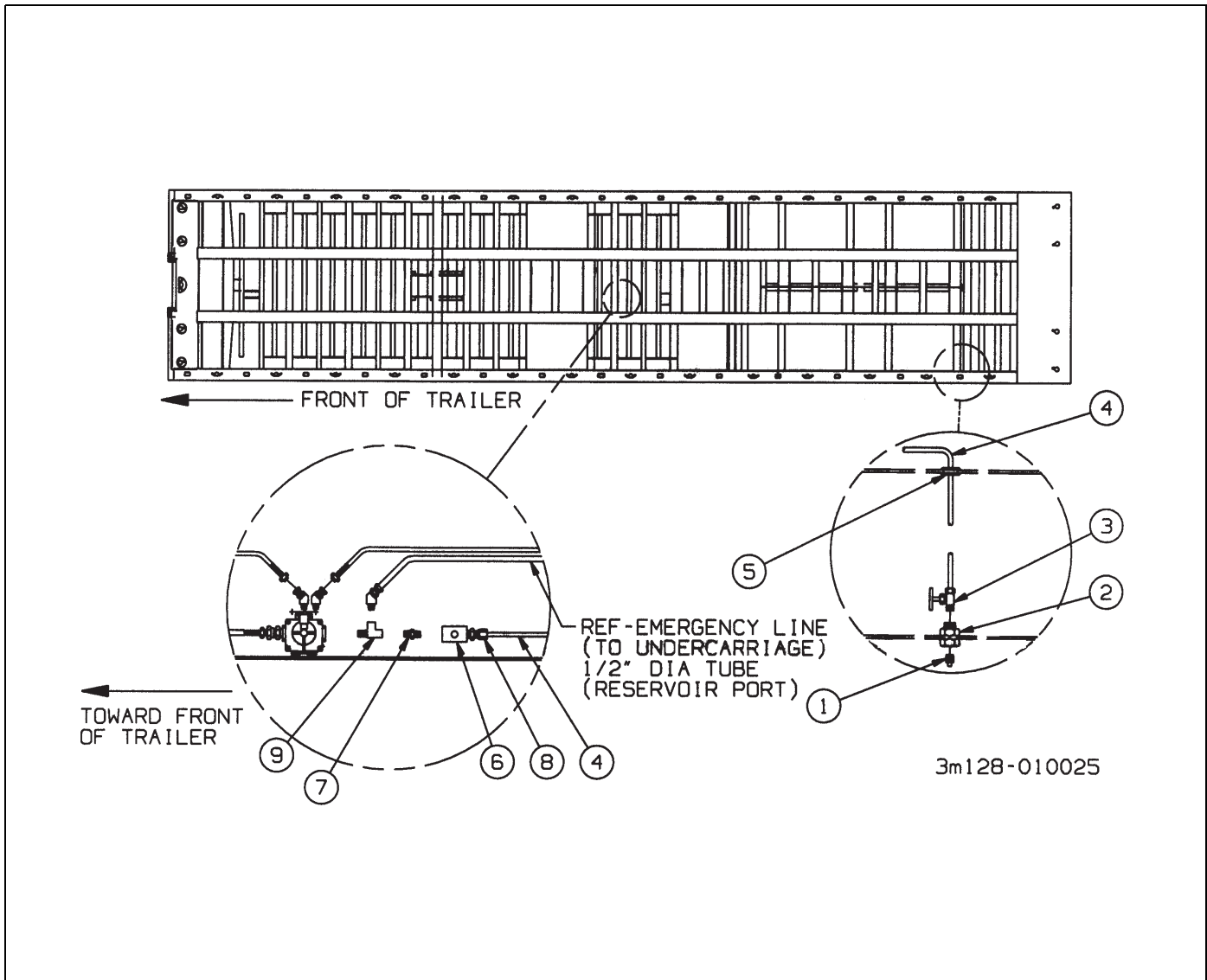


Figure 1-126: Air Outlet Accessory

Air Outlet Accessory

ITEM	PART NUMBER	DESCRIPTION	QTY.
	3-128-010025	AIR OUTLET ACCESSORY	
1	1-560-010002-02	PLUG PIPE	1
2	1-297-010022-02	FITTING AIR ANCHOR COUPLING	1
3	A6760S	SHUT OFF VALVE	1
4	1-833-010002	TUBING NYLON	20
5	1-343-010007	GROMMET	1
6	905-54-107	BRAKE PROTECTION VALVE	1
	167692	FILTER	1
7	2083-8-4S	NIPPLE HEX 1/2PIPE - 1/4PIPE	1
8	1-297-010007-11	FITTING, AIR	1
9	1-297-010018-04	FITTING, AIR BR TEE	1

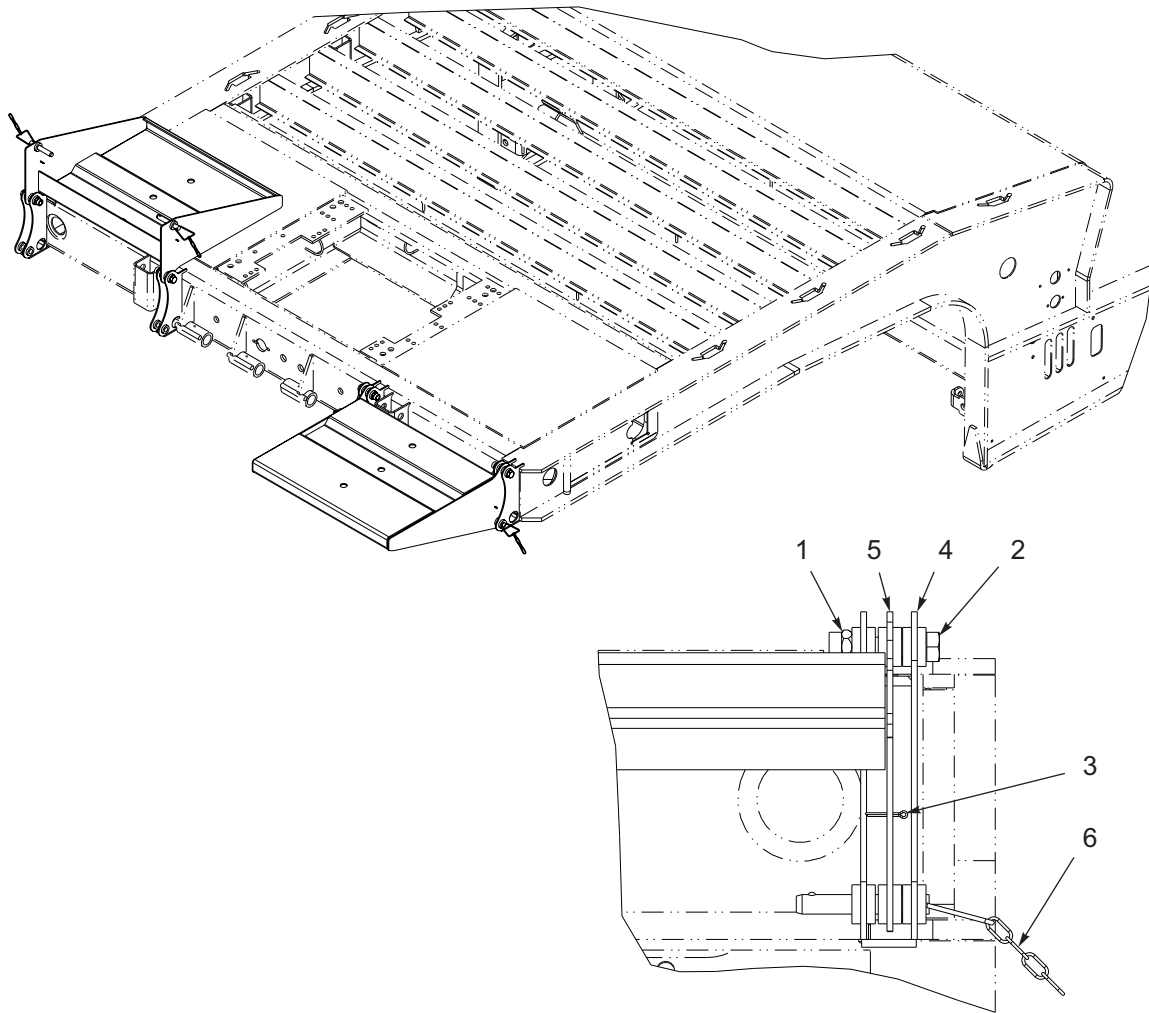
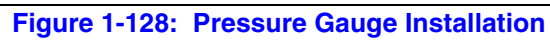


Figure 1-127: Front Flip Extension

Front Flip Extension

ITEM	PART NUMBER	DESCRIPTION	QTY.
	130538	FRONT FLIP EXTENSION	
1	1-512-010005-13	NUT, HEX LOCK 5/8-11 GRB	4
2	1-654-010059-11	SCREW, HEX HEAD CAP 5/8-11 X 3-1/2 GR5	4
3	101386	PIN, COTTER 1/8 X 1	4
4	130537	FRAME MOD., FRONT FLIP	1
5	130540	EXTENSION WELDMENT, FRONT FLIP	2
6	2-557-010426	PIN, DETENT 5/8 W/ CHAIN	2



ITEM	PART NUMBER	DESCRIPTION	QTY.
	128601	PRESSURE GAUGE INSTALLATION	
1	1-297-010008-07	FITTING, AIR 90	1
2	1-297-010010-04	FITTING, AIR UNION TEE	1
3	1-297-010014-02	FITTING, AIR	1
4	1-297-010022-02	FITTING, AIR ANCHOR	1
5	1-323-010008	GAUGE, PRESSURE 0 - 160 PSI	1
6	1-512-010005-05	NUT, HEX LOCK 3/8-16 GRB	1
7	1-654-010051-03	SCREW, HEX HEAD CAP 3/8-16 X 3/4 GR5	1
8	1-833-010001	TUBING NYLON 3/8	50
9	3-120-010445	BRACKET, PRESSURE REGULATOR	1

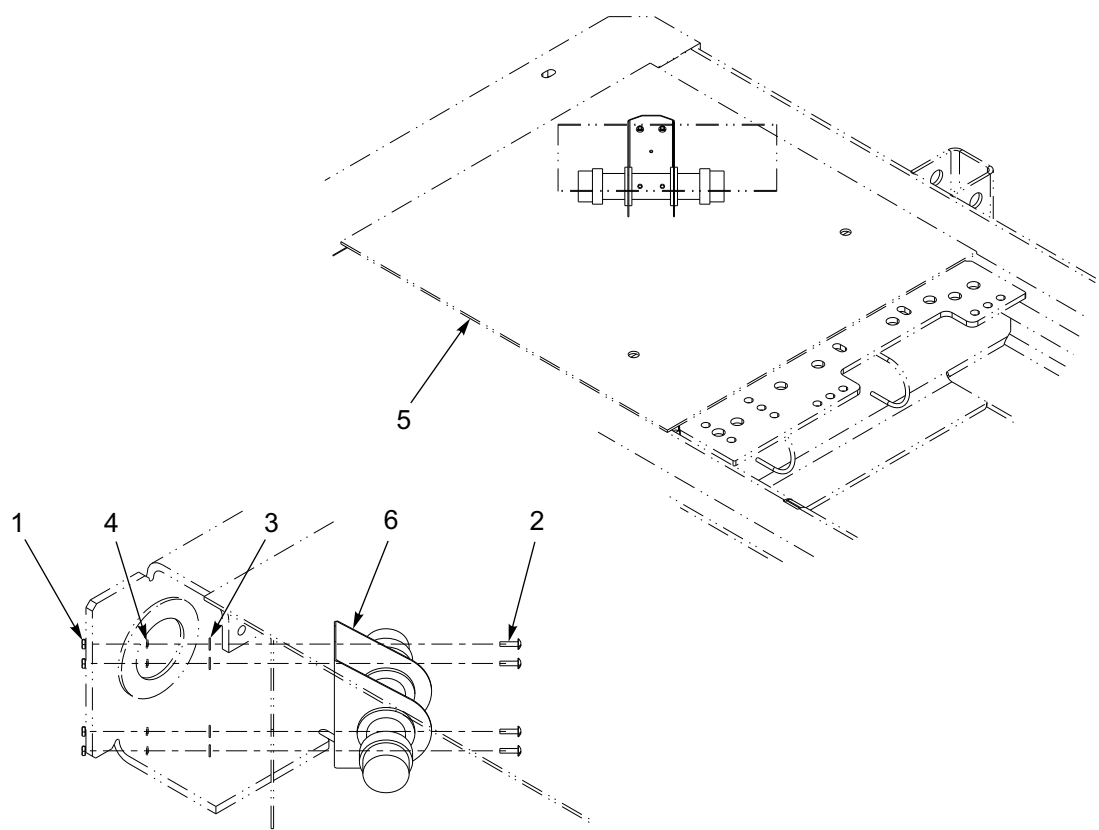


Figure 1-129: Registration Holder Installation

Registration Holder Installation

ITEM	PART NUMBER	DESCRIPTION	QTY.
	175989	REGISTRATION HOLDER INSTALLATION	
1	1-512-010007-03	NUT, HEX LOCK 10-24	4
2	1-656-010003051	SCREW, RD HEAD SQ NECK 10-24 X 3/4	4
3	1-861-010032-03	WASHER, FLAT #10	4
4	1-861-010034-07	WASHER, FLAT #10	4
5	-----	GOOSENECK WELDMENT	REF
6	174598	REGISTRATION CARD HOLDER	1

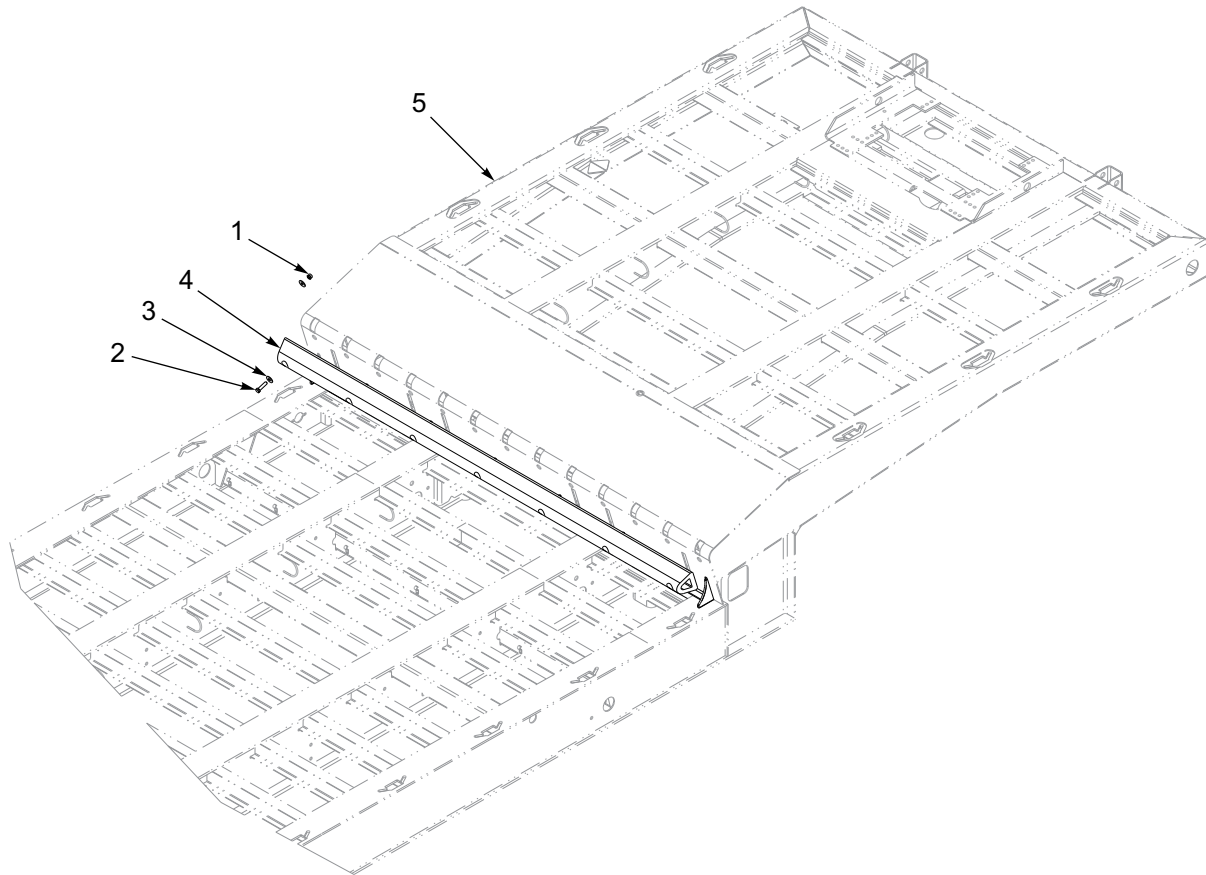


Figure 1-130: Rubber Bumper Stop

Rubber Bumper Stop

ITEM	PART NUMBER	DESCRIPTION	QTY.
	133470	RUBBER BUMPER STOP	
1	1-512-010005-09	NUT, HEX LOCK 1/2-13 GRB	7
2	1-654-010055-05	SCREW, HEX HEAD CAP 1/2-13 X 2 GR5	7
3	1-861-010032-15	WASHER, FLAT 1/2W	14
4	106611	BUMPER, REAR TRAILER	1
5	-----	FRAME WELDMENT	REF

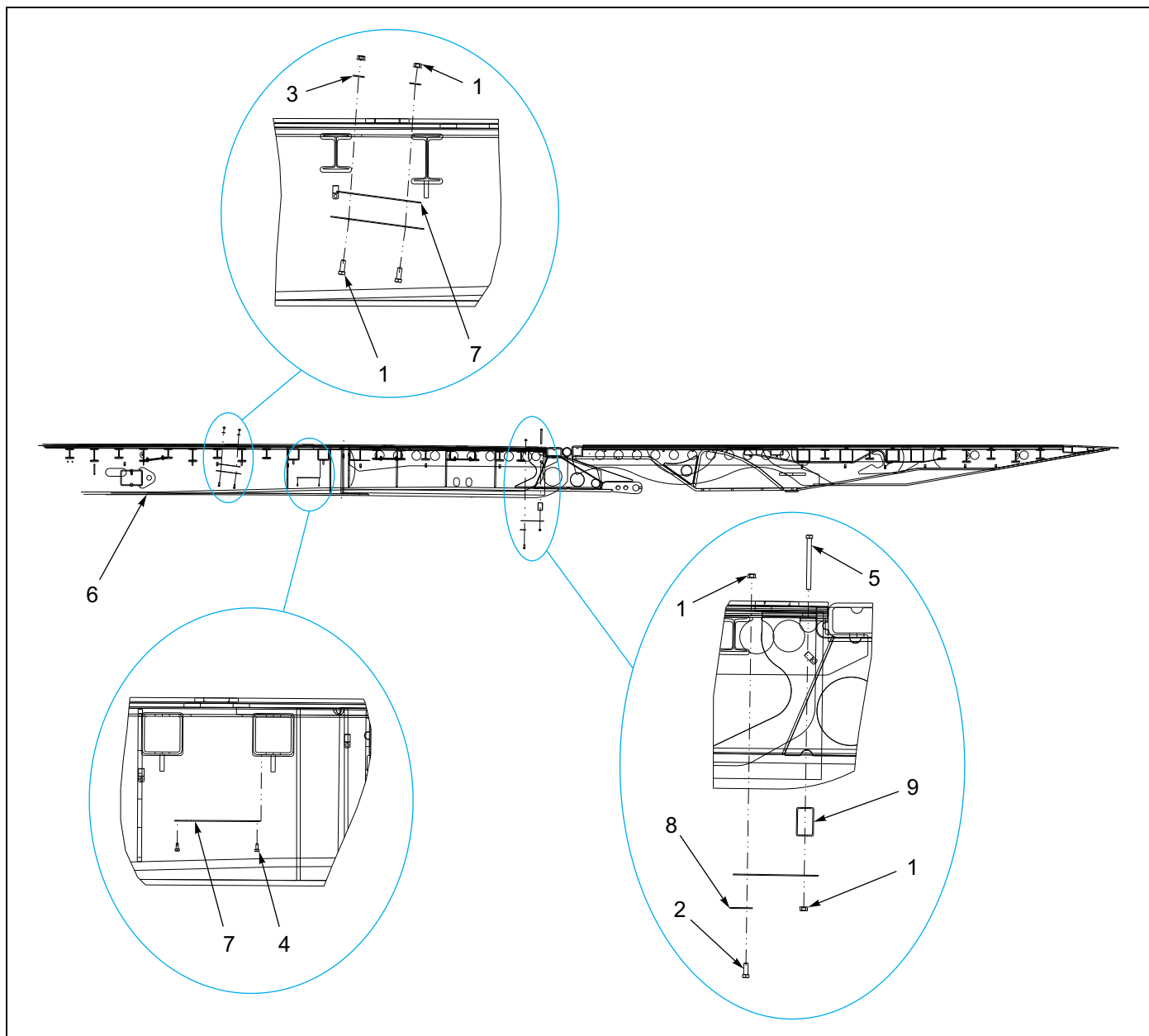


Figure 1-131: Shield Installation - Center Gotcha

Shield Installation - Center Gotcha

ITEM	PART NUMBER	DESCRIPTION	QTY.
	167400	SHIELD INSTALLATION, CENTER GOTCHA	
1	1-510-010001	NUT, FLANGE LOCK 3/8-16	12
2	1-654-010051-05	SCREW, HEX HEAD CAP 3/8-16 X 1 GR5	10
3	1-861-010032-11	WASHER, FLAT 3/8W	8
4	118-7429	SCREW, SELF-TAP HEX HEAD #10-32 X 1/2	6
5	129698	SCREW, HEX HEAD CAP 3/8-16 X 4-1/2 GR5	2
6	----	CENTER GOTCHA FRAME WELDMENT	1
7	167399	CENTER GOTCHA SHIELD	6
8	167401	HOLD-DOWN SHIELD	5
9	167402	SPACER, SHIELD	1

[illegible]

Symbols

#242 LOCKTITE 1-97

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